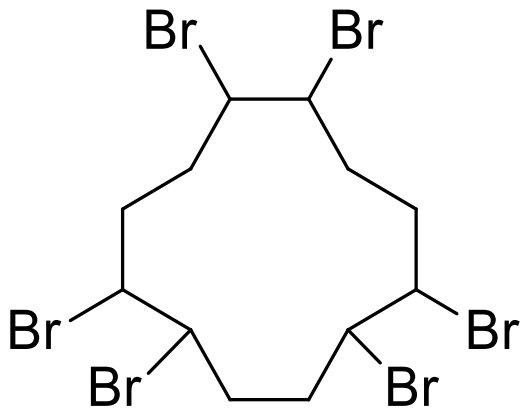
United States
Environmental Protection Agency

June 2019
Office of Chemical Safety and
Pollution Prevention

Environmental Hazard Extended Data Extraction Supplemental Document For Draft Risk Evaluation of Cyclic Aliphatic Bromide Cluster (HBCD)



CASRN	NAME
25637-99-4	Hexabromocyclododecane
3194-55-6	1,2,5,6,9,10-Hexabromocyclododecane
3194-57-8	1,2,5,6-Tetrabromocyclooctane

June, 2019

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Tabke 1. On-topic aquatic toxicity studies that were evaluated for HBCD

CAS RN	Test Species	Water Type	Duration	End-point	Conc(s)	Test Analysis	Effect(s)	References	Data Quality Ratings	HERO ID.
Aquatic Vegetation										
25637-99-4	Green algae (*Pseudokirchneriella subcapitata*)	Fresh	24-hour	EC_{10} = >0.0037 mg AI/L (0.0037 is the mean of the Day 0 and Day 4 6.8 mg/L measurements)	0.0015, 0.0022, 0.0032, 0.0046, 0.0068 mg/L (nominal); 0.0013, 0.0022, 3.38, 0.0042, 0.0064 mg/L (measured, Day 0)	Static, Measured. Solvent: Dimethylformamide	Abundance (cell density); Population growth rate (area under growth curve)	{Wildlife Intl LTD, 1997, 1928298@@author-year}	High	1928298
25637-99-4	Green algae (*Pseudokirchneriella subcapitata*)	Fresh	24-hour	EC_{50} = >0.0037 mg AI/L	0.0015, 0.0022, 0.0032, 0.0046, 0.0068 mg/L (nominal); 0.0013, 0.0022, 3.38, 0.0042, 0.0064 mg/L (measured, Day 0)	Static, Measured. Solvent: Dimethylformamide	Abundance (cell density); Population growth rate (area under growth curve)	{Wildlife Intl LTD, 1997, 1928298@@author-year}	High	
25637-99-4	Green algae (*Pseudokirchneriella subcapitata*)	Fresh	24-hour	EC_{90} = >0.0037 mg AI/L	0.0015, 0.0022, 0.0032, 0.0046, 0.0068 mg/L (nominal); 0.0013, 0.0022, 3.38, 0.0042, 0.0064 mg/L (measured, Day 0)	Static, Measured. Solvent: Dimethylformamide	Abundance (cell density); Population growth rate (area under growth curve)	{Wildlife Intl LTD, 1997, 1928298@@author-year}	High	
25637-99-4	Green algae (*Pseudokirchneriella subcapitata*)	Fresh	48-hour	EC_{10} = >0.0037 mg AI/L	0.0015, 0.0022, 0.0032, 0.0046, 0.0068 mg/L (nominal); 0.0013, 0.0022, 3.38, 0.0042, 0.0064 mg/L (measured, Day 0)	Static, Measured. Solvent: Dimethylformamide	Abundance (cell density); Population growth rate (area under growth curve)	{Wildlife Intl LTD, 1997, 1928298@@author-year}	High	
25637-99-4	Green algae (*Pseudokirchneriella subcapitata*)	Fresh	48-hour	EC_{50} = >0.0037 mg AI/L	0.0015, 0.0022, 0.0032, 0.0046, 0.0068 mg/L (nominal); 0.0013, 0.0022, 3.38, 0.0042, 0.0064 mg/L (measured, Day 0)	Static, Measured. Solvent: Dimethylformamide	Abundance (cell density); Population growth rate (area under growth curve)	{Wildlife Intl LTD, 1997, 1928298@@author-year}	High	

CAS RN	Test Species	Water Type	Duration	End-point	Conc(s)	Test Analysis	Effect(s)	References	Data Quality Ratings	HERO ID.
25637-99-4	Green algae (*Pseudokirchneriella subcapitata*)	Fresh	48-hour	EC_{90} = >0.0037 mg AI/L	0.0015, 0.0022, 0.0032, 0.0046, 0.0068 mg/L (nominal); 0.0013, 0.0022, 3.38, 0.0042, 0.0064 mg/L (measured, Day 0)	Static, Measured. Solvent: Dimethylformamide	Abundance (cell density); Population growth rate (area under growth curve)	{Wildlife Intl LTD, 1997, 1928298@@author-year}	High	
25637-99-4	Green algae (*Pseudokirchneriella subcapitata*)	Fresh	72-hour	EC_{10} = >0.0037 mg AI/L	0.0015, 0.0022, 0.0032, 0.0046, 0.0068 mg/L (nominal); 0.0013, 0.0022, 3.38, 0.0042, 0.0064 mg/L (measured, Day 0)	Static, Measured. Solvent: Dimethylformamide	Abundance (cell density); Population growth rate (area under growth curve)	{Wildlife Intl LTD, 1997, 1928298@@author-year}	High	
25637-99-4	Green algae (*Pseudokirchneriella subcapitata*)	Fresh	72-hour	EC_{50} = >0.0037 mg AI/L	0.0015, 0.0022, 0.0032, 0.0046, 0.0068 mg/L (nominal); 0.0013, 0.0022, 3.38, 0.0042, 0.0064 mg/L (measured, Day 0)	Static, Measured. Solvent: Dimethylformamide	Abundance (cell density); Population growth rate (area under growth curve)	{Wildlife Intl LTD, 1997, 1928298@@author-year}	High	
25637-99-4	Green algae (*Pseudokirchneriella subcapitata*)	Fresh	72-hour	EC_{90} = >0.0037 mg AI/L	0.0015, 0.0022, 0.0032, 0.0046, 0.0068 mg/L (nominal); 0.0013, 0.0022, 3.38, 0.0042, 0.0064 mg/L (measured, Day 0)	Static, Measured. Solvent: Dimethylformamide	Abundance (cell density); Population growth rate (area under growth curve)	{Wildlife Intl LTD, 1997, 1928298@@author-year}	High	
25637-99-4	Green algae (*Pseudokirchneriella subcapitata*)	Fresh	96-hour	EC_{10} = >0.0037 mg AI/L	0.0015, 0.0022, 0.0032, 0.0046, 0.0068 mg/L (nominal); 0.0013, 0.0022, 3.38, 0.0042, 0.0064 mg/L (measured, Day 0)	Static, Measured. Solvent: Dimethylformamide	Abundance (cell density); Population growth rate (area under growth curve)	{Wildlife Intl LTD, 1997, 1928298@@author-year}	High	
25637-99-4	Green algae (*Pseudokirchneriella subcapitata*)	Fresh	96-hour	EC_{50} = >0.0037 mg AI/L	0.0015, 0.0022, 0.0032, 0.0046, 0.0068 mg/L (nominal); 0.0013, 0.0022, 3.38, 0.0042, 0.0064 mg/L (measured, Day 0)	Static, Measured. Solvent: Dimethylformamide	Abundance (cell density); Population growth rate (area under growth curve)	{Wildlife Intl LTD, 1997, 1928298@@author-year}	High	

CAS RN	Test Species	Water Type	Duration	End-point	Conc(s)	Test Analysis	Effect(s)	References	Data Quality Ratings	HERO ID.
25637-99-4	Green algae (*Pseudokirchneriella subcapitata*)	Fresh	96-hour	EC_{90} = >0.0037 mg AI/L	0.0015, 0.0022, 0.0032, 0.0046, 0.0068 mg/L (nominal); 0.0013, 0.0022, 3.38, 0.0042, 0.0064 mg/L (measured, Day 0)	Static, Measured. Solvent: Dimethylformamide	Abundance (cell density); Population growth rate (area under growth curve)	{Wildlife Intl LTD, 1997, 1928298@@author-year}	High	
25637-99-4	Green algae (*Pseudokirchneriella subcapitata*)	Fresh	96-hour	NOEC = >0.0037 mg AI/L	0.0015, 0.0022, 0.0032, 0.0046, 0.0068 mg/L (nominal); 0.0013, 0.0022, 3.38, 0.0042, 0.0064 mg/L (measured, Day 0)	Static, Measured. Solvent: Dimethylformamide	Population growth rate (area under growth curve)	{Wildlife Intl LTD, 1997, 1928298@@author-year}	High	
25637-99-4	Diatom (*Skeletonema costatum*)	Salt	72-hour	EC_{50} = 0.0101 mg AI/L; Seawater, Test 1	Not Reported	Static, Measured, Solvent: Acetone	Population change (change in N/change in time)	{Walsh, 1987, 1927837@@author-year}	High	1927837
25637-99-4	Diatom (*Skeletonema costatum*)	Salt	72-hour	EC_{50} = 0.01 mg AI/L; Seawater, Test 2	Not Reported	Static, Measured, Solvent: Acetone	Population change (change in N/change in time)	{Walsh, 1987, 1927837@@author-year}	High	
25637-99-4	Diatom (*Skeletonema costatum*)	Salt	72-hour	EC_{50} = 0.0122 mg AI/L; Rila Marine Mix, Test 1	Not Reported	Static, Measured, Solvent: Acetone	Population change (change in N/change in time)	{Walsh, 1987, 1927837@@author-year}	High	
25637-99-4	Diatom (*Skeletonema costatum*)	Salt	72-hour	EC_{50} = 0.0118 mg AI/L; Rila Marine Mix, Test 2	Not Reported	Static, Measured, Solvent: Acetone	Population change (change in N/change in time)	{Walsh, 1987, 1927837@@author-year}	High	
25637-99-4	Diatom (*Skeletonema costatum*)	Salt	72-hour	EC_{50} = 0.01 mg AI/L; Instant Ocean sea salts, Test 1	Not Reported	Static, Measured, Solvent: Acetone	Population change (change in N/change in time)	{Walsh, 1987, 1927837@@author-year}	High	
25637-99-4	Diatom (*Skeletonema costatum*)	Salt	72-hour	EC_{50} = 0.01 mg AI/L; Instant Ocean sea salts, Test 2	Not Reported	Static, Measured, Solvent: Acetone	Population change (change in N/change in time)	{Walsh, 1987, 1927837@@author-year}	High	
25637-99-4	Diatom (*Skeletonema costatum*)	Salt	72-hour	EC_{50} = 0.0113 mg AI/L; Utikem seawater compound, Test 1	Not Reported	Static, Measured, Solvent: Acetone	Population change (change in N/change in time)	{Walsh, 1987, 1927837@@author-year}	High	
25637-99-4	Diatom (*Skeletonema costatum*)	Salt	72-hour	EC_{50} = 0.0113 mg AI/L; Utikem seawater compound, Test 2	Not Reported	Static, Measured, Solvent: Acetone	Population change (change in N/change in time)	Walsh, 1987, 1927837@@author-year}	High	

CAS RN	Test Species	Water Type	Duration	End-point	Conc(s)	Test Analysis	Effect(s)	References	Data Quality Ratings	HERO ID.
25637-99-4	Diatom (*Skeletonema costatum*)	Salt	72-hour	EC_{50} = 0.0095 mg AI/L; HW Marine Mix, Test 1	Not Reported	Static, Measured, Solvent: Acetone	Population change (change in N/change in time)	{Walsh, 1987, 1927837@@author-year}	High	
25637-99-4	Diatom (*Skeletonema costatum*)	Salt	72-hour	EC_{50} = 0.009 mg AI/L; HW Marine Mix, Test 2	Not Reported	Static, Measured, Solvent: Acetone	Population change (change in N/change in time)	{Walsh, 1987, 1927837@@author-year}	High	
25637-99-4	Diatom (*Thalassiosira pseudonana*)	Salt	72-hour	EC_{50} = 0.07 mg AI/L; Seawater, Test 1	Not Reported	Static, Measured, Solvent: Acetone	Population change (change in N/change in time)	{Walsh, 1987, 1927837@@author-year}	High	
25637-99-4	Diatom (*Thalassiosira pseudonana*)	Salt	72-hour	EC_{50} = 0.08 mg AI/L; Seawater, Test 2	Not Reported	Static, Measured, Solvent: Acetone	Population change (change in N/change in time)	{Walsh, 1987, 1927837@@author-year}	High	
25637-99-4	Diatom (*Thalassiosira pseudonana*)	Salt	72-hour	EC_{50} = 0.38 mg AI/L; Rila Marine Mix, Test 1	Not Reported	Static, Measured, Solvent: Acetone	Population change (change in N/change in time)	{Walsh, 1987, 1927837@@author-year}	High	
25637-99-4	Diatom (*Thalassiosira pseudonana*)	Salt	72-hour	EC_{50} = 0.36 mg AI/L; Rila Marine Mix, Test 2	Not Reported	Static, Measured, Solvent: Acetone	Population change (change in N/change in time)	{Walsh, 1987, 1927837@@author-year}	High	
25637-99-4	Diatom (*Thalassiosira pseudonana*)	Salt	72-hour	EC_{50} = 0.15 mg AI/L; Instant Ocean sea salts, Test 1	Not Reported	Static, Measured, Solvent: Acetone	Population change (change in N/change in time)	{Walsh, 1987, 1927837@@author-year}	High	
25637-99-4	Diatom (*Thalassiosira pseudonana*)	Salt	72-hour	EC_{50} = 0.14 mg AI/L; Instant Ocean sea salts, Test 2	Not Reported	Static, Measured, Solvent: Acetone	Population change (change in N/change in time)	{Walsh, 1987, 1927837@@author-year}	High	
25637-99-4	Diatom (*Thalassiosira pseudonana*)	Salt	72-hour	EC_{50} = 0.1 mg AI/L; 40 fathoms marine mix, Test 1	Not Reported	Static, Measured, Solvent: Acetone	Population change (change in N/change in time)	{Walsh, 1987, 1927837@@author-year}	High	
25637-99-4	Diatom (*Thalassiosira pseudonana*)	Salt	72-hour	EC_{50} = 0.1 mg AI/L; 40 fathoms marine mix, Test 2	Not Reported	Static, Measured, Solvent: Acetone	Population change (change in N/change in time)	{Walsh, 1987, 1927837@@author-year}	High	
25637-99-4	Diatom (*Thalassiosira pseudonana*)	Salt	72-hour	EC_{50} = 0.09 mg AI/L; Utikem seawater compound, Test 1	Not Reported	Static, Measured, Solvent: Acetone	Population change (change in N/change in time)	{Walsh, 1987, 1927837@@author-year}	High	
25637-99-4	Diatom (*Thalassiosira pseudonana*)	Salt	72-hour	EC_{50} = 0.09 mg AI/L; Utikem seawater compound, Test 2	Not Reported	Static, Measured, Solvent: Acetone	Population change (change in N/change in time)	{Walsh, 1987, 1927837@@author-year}	High	
25637-99-4	Diatom (*Thalassiosira pseudonana*)	Salt	72-hour	EC_{50} = 0.05 mg AI/L; HW Marine Mix, Test 1	Not Reported	Static, Measured, Solvent: Acetone	Population change (change in N/change in time)	{Walsh, 1987, 1927837@@author-year}	High	
25637-99-4	Diatom (*Thalassiosira pseudonana*)	Salt	72-hour	EC_{50} = 0.04 mg AI/L; HW Marine Mix, Test 2	Not Reported	Static, Measured, Solvent: Acetone	Population change (change in N/change in time)	{Walsh, 1987, 1927837@@author-year}	High	

CAS RN	Test Species	Water Type	Duration	End-point	Conc(s)	Test Analysis	Effect(s)	References	Data Quality Ratings	HERO ID.
134237-50-6	Blue-green Algae (*Spirulina subsalsa*)	Fresh	168-hour	BCF = 350	0.002 mg/L	Static, Measured	Residue; Bioconcentration	{Zhang, 2014, 2343690@@author-year}	Unacceptable	2343690
134237-50-6	Green Algae (*Scenedesmus acutus var. acutus*)	Fresh	168-hour	BCF = 407	0.002 mg/L	Static, Measured	Residue; Bioconcentration	{Zhang, 2014, 2343690@@author-year}	Unacceptable	
134237-51-7	Blue-green Algae (*Spirulina subsalsa*)	Fresh	168-hour	BCF = 270	0.002 mg/L	Static, Measured	Residue; Bioconcentration	{Zhang, 2014, 2343690@@author-year}	Unacceptable	
134237-51-7	Green Algae (*Scenedesmus acutus var. acutus*)	Fresh	168-hour	BCF = 469	0.002 mg/L	Static, Measured	Residue; Bioconcentration	{Zhang, 2014, 2343690@@author-year}	Unacceptable	
134237-52-8	Green Algae (*Scenedesmus acutus var. acutus*)	Fresh	168-hour	BCF = 390	0.002 mg/L	Static, Measured	Residue; Bioconcentration	{Zhang, 2014, 2343690@@author-year}	Unacceptable	
134237-52-8	Blue-green Algae (*Spirulina subsalsa*)	Fresh	168-hour	BCF = 174	0.002 mg/L	Static, Measured	Residue; Bioconcentration	{Zhang, 2014, 2343690@@author-year}	Unacceptable	
Aquatic Invertebrates										
3194-55-6	Water flea (*Daphnia magna*)	Fresh	3-hour	EC_0 = 1000 mg AI/L	0, 0.01, 0.1, 1, 10, 100, 1000 mg/L	Static, Nominal	Behavioral: Swimming	{BASF, 1990, 1928267@@author-year}	High	1928267
3194-55-6	Water flea (*Daphnia magna*)	Fresh	3-hour	EC_{50} = >1000 mg AI/L	0, 0, 0.01, 0.1, 1, 10, 100, 1000 mg/L	Static, Nominal	Behavioral: Swimming	{BASF, 1990, 1928267@@author-year}	High	
3194-55-6	Water flea (*Daphnia magna*)	Fresh	3-hour	EC_{100} = >1000 mg AI/L	0, 0, 0.01, 0.1, 1, 10, 100, 1000 mg/L	Static, Nominal	Behavioral: Swimming	{BASF, 1990, 1928267@@author-year}	High	
3194-55-6	Water flea (*Daphnia magna*)	Fresh	6-hour	EC_0 = 1000 mg AI/L	0, 0, 0.01, 0.1, 1, 10, 100, 1000 mg/L	Static, Nominal	Behavioral: Swimming	{BASF, 1990, 1928267@@author-year}	High	
3194-55-6	Water flea (*Daphnia magna*)	Fresh	6-hour	EC_{50} = >1000	0, 0, 0.01, 0.1, 1, 10, 100, 1000 mg/L	Static, Nominal	Behavioral: Swimming	{BASF, 1990, 1928267@@author-year}	High	

CAS RN	Test Species	Water Type	Duration	End-point	Conc(s)	Test Analysis	Effect(s)	References	Data Quality Ratings	HERO ID.
3194-55-6	Water flea (*Daphnia magna*)	Fresh	6-hour	EC_{100} = >1000 mg AI/L	0, 0, 0.01, 0.1, 1, 10, 100, 1000 mg/L	Static, Nominal	Behavioral: Swimming	{BASF, 1990, 1928267@@author-year}	High	
3194-55-6	Water flea (*Daphnia magna*)	Fresh	24-hour	EC_0 = 1000 mg AI/L	0, 0, 0.01, 0.1, 1, 10, 100, 1000 mg/L	Static, Nominal	Behavioral: Swimming	{BASF, 1990, 1928267@@author-year}	High	
3194-55-6	Water flea (*Daphnia magna*)	Fresh	24-hour	EC_{50} = >1000 mg AI/L	0, 0, 0.01, 0.1, 1, 10, 100, 1000 mg/L	Static, Nominal	Behavioral: Swimming	{BASF, 1990, 1928267@@author-year}	High	
3194-55-6	Water flea (*Daphnia magna*)	Fresh	24-hour	EC_{100} = >1000 mg AI/L	0, 0, 0.01, 0.1, 1, 10, 100, 1000 mg/L	Static, Nominal	Behavioral: Swimming	{BASF, 1990, 1928267@@author-year}	High	
3194-55-6	Water flea (*Daphnia magna*)	Fresh	48-hour	EC_0 = 1 mg AI/L	, 0, 0, 0.01, 0.1, 1, 10, 100, 1000 mg/L	Static, Nominal	Behavioral: Swimming	{BASF, 1990, 1928267@@author-year}	High	
3194-55-6	Water flea (*Daphnia magna*)	Fresh	48-hour	EC_{50} = 146.34 mg AI/L	0, 0.01, 0.1, 1, 10, 100, 1000 mg/L	Static, Nominal	Behavioral: Swimming	{BASF, 1990, 1928267@@author-year}	High	
3194-55-6	Water flea (*Daphnia magna*)	Fresh	48-hour	EC_{100} = >1000 mg AI/L	0, 0, 0.01, 0.1, 1, 10, 100, 1000 mg/L	Static, Nominal	Behavioral: Swimming	{BASF, 1990, 1928267@@author-year}	High	
25637-99-4	Water flea (*Daphnia magna*)	Fresh	48-hour	No Mortality/Immobility Concentration ~~NR-ZERO~~ = 0.0032 mg AI/L	0, 0, 0.0018, 0.0021, 0.0023, 0.0024, 0.0032 mg/L	Flow-through, Measured, Solvent: Dimethylformamide (DMF)	Mortality, immobility	{Wildlife Intl LTD, 1997, 1928297@@author-year}	High	1928297
25637-99-4	Water flea (*Daphnia magna*)	Fresh	48-hour	EC_{50} = >0.0032 mg AI/L	0, 0, 0.0018, 0.0021, 0.0023, 0.0024, 0.0032 mg/L	Flow-through, Measured, Solvent: DMF	Mortality	{Wildlife Intl LTD, 1997, 1928297@@author-year}	High	
25637-99-4	Water flea (*Daphnia magna*)	Fresh	48-hour	NOEC = 0.0032 mg AI/L	0, 0, 0.0018, 0.0021, 0.0023, 0.0024, 0.0032 mg/L	Flow-through, Measured, Solvent: DMF	Mortality, Immobility	{Wildlife Intl LTD, 1997, 1928297@@author-year}	High	
25637-99-4	Water flea (*Daphnia magna*)	Fresh	24-hour	EC_{50} = >0.011 mg AI/L	0, 0, 0.00087, 0.0016, 0.0031, 0.0056, 0.011 mg/L	Flow-through, Measured, Solvent: DMF	Mortality; Progeny counts/ numbers	{Wildlife Intl LTD, 1998, 1928243@@author-year}	High	1928243
25637-99-4	Water flea (*Daphnia magna*)	Fresh	48-hour	EC_{50} = >0.011 mg AI/L	0, 0, 0.00087, 0.0016, 0.0031, 0.0056, 0.011 mg/L	Flow-through, Measured, Solvent: DMF	Mortality; Progeny counts/ numbers	{Wildlife Intl LTD, 1998, 1928243@@author-year}	High	

CAS RN	Test Species	Water Type	Duration	End-point	Conc(s)	Test Analysis	Effect(s)	References	Data Quality Ratings	HERO ID.
25637-99-4	Water flea (*Daphnia magna*)	Fresh	96-hour	EC_{50} = >0.011 mg AI/L	0, 0, 0.00087, 0.0016, 0.0031, 0.0056, 0.011 mg/L	Flow-through, Measured, Solvent: DMF	Mortality; Progeny counts/ numbers	{Wildlife Intl LTD, 1998, 1928243@@author-year}	High	
25637-99-4	Water flea (*Daphnia magna*)	Fresh	7-day	EC_{50} = >0.011 mg AI/L	0, 0, 0.00087, 0.0016, 0.0031, 0.0056, 0.011 mg/L	Flow-through, Measured, Solvent: DMF	Mortality; Progeny counts/ numbers	{Wildlife Intl LTD, 1998, 1928243@@author-year}	High	
25637-99-4	Water flea (*Daphnia magna*)	Fresh	14-day	EC_{50} = >0.011 mg AI/L	0, 0, 0.00087, 0.0016, 0.0031, 0.0056, 0.011 mg/L	Flow-through, Measured, Solvent: DMF	Mortality; Progeny counts/ numbers	{Wildlife Intl LTD, 1998, 1928243@@author-year}	High	
25637-99-4	Water flea (*Daphnia magna*)	Fresh	21-day	EC_{50} = >0.011 mg AI/L	0, 0, 0.00087, 0.0016, 0.0031, 0.0056, 0.011 mg/L	Flow-through, Measured, Solvent: DMF	Mortality; Progeny counts/ numbers	{Wildlife Intl LTD, 1998, 1928243@@author-year}	High	
25637-99-4	Water flea (*Daphnia magna*)	Fresh	21-day	NOEC = 0.011 mg AI/L	0, 0, 0.00087, 0.0016, 0.0031, 0.0056, 0.011 mg/L	Flow-through, Measured, Solvent: DMF	Mortality	{Wildlife Intl LTD, 1998, 1928243@@author-year}	High	
25637-99-4	Water flea (*Daphnia magna*)	Fresh	21-day	NOEC = 0.0056 mg AI/L; LOEC = 0.011 mg AI/L	0, 0, 0.00087, 0.0016, 0.0031, 0.0056, 0.011 mg/L	Flow-through, Measured, Solvent: DMF	Progeny counts/numbers; Growth: Weight	{Wildlife Intl LTD, 1998, 1928243@@author-year}	High	
25637-99-4	Water flea (*Daphnia magna*)	Fresh	21-day	LOEC = 0.0056 mg AI/L	0, 0, 0.00087, 0.0016, 0.0031, 0.0056, 0.011 mg/L	Flow-through, Measured, Solvent: DMF	Growth: Length	{Wildlife Intl LTD, 1998, 1928243@@author-year}	High	
25637-99-4	Water flea (*Daphnia magna*)	Fresh	21-day	NOEC = 0.0031 mg AI/L	0, 0, 0.00087, 0.0016, 0.0031, 0.0056, 0.011 mg/L	Flow-through, Measured, Solvent: DMF	Growth: Length	{Wildlife Intl LTD, 1998, 1928243@@author-year}	High	
25637-99-4	Water flea (*Daphnia magna*)	Fresh	21-day	MATC = 0.0042 mg AI/L	0, 0, 0.00087, 0.0016, 0.0031, 0.0056, 0.011 mg/L	Flow-through, Measured, Solvent: DMF	Growth: Length	{Wildlife Intl LTD, 1998, 1928243@@author-year}	High	
25637-99-4	Water flea (*Daphnia magna*)	Fresh	21-day	NOAEL = 0.0056 mg AI/L; LOAEL = 0.011 mg AI/L	0, 0, 0.00087, 0.0016, 0.0031, 0.0056, 0.011 mg/L	Flow-through, Measured, Solvent: DMF	Reproductive success (young per reproductive day); Growth: Weight	{Drottar, 1998, 3809169@@author-year}	High	3809169

CAS RN	Test Species	Water Type	Duration	End-point	Conc(s)	Test Analysis	Effect(s)	References	Data Quality Ratings	HERO ID.
25637-99-4	Water flea (*Daphnia magna*)	Fresh	21-day	NOAEL = 0.0031 mg AI/L; LOAEL = 0.0056 mg AI/L	0, 0, 0.00087, 0.0016, 0.0031, 0.0056, 0.011 mg/L	Flow-through, Measured, Solvent: DMF	Growth: Length	{Drottar, 1998, 3809169@@author-year}	High	
25637-99-4	Water flea (*Daphnia magna*)	Fresh	21-day	MATC = 0.0042 mg AI/L	0, 0, 0.00087, 0.0016, 0.0031, 0.0056, 0.011 mg/L	Flow-through, Measured, Solvent: DMF	Growth: Length	{Drottar, 1998, 3809169@@author-year}	High	
3194-55-6	Japanese Littleneck Clam (*Venerupis philippinarum*)	Salt	1-day	NOAEL = 0.000086 mg AI/L; LOAEL = 0.00086 mg AI/L; Gill tissue	0, 0.000086, 0.00086, 0.0086 mg/L	Renewal, Not reported, Solvent: Dimethyl sulfoxide (DMSO)	7-Ethoxyresorufin O-deethylase; Glutathione (reduced glutathione); DNA damage	{Zhang, 2014, 2528343@@author-year}	High	2528343
3194-55-6	Japanese Littleneck Clam (*Venerupis philippinarum*)	Salt	3-day	LOAEL = 0.000086 mg AI/L; Gill tissue	0, 0.000086, 0.00086, 0.0086 mg/L	Renewal, Not reported, Solvent: DMSO	7-Ethoxyresorufin O-deethylase	{Zhang, 2014, 2528343@@author-year}	High	
3194-55-6	Japanese Littleneck Clam (*Venerupis philippinarum*)	Salt	6-day	LOAEL = 0.000086 mg AI/L; Gill tissue	0, 0.000086, 0.00086, 0.0086 mg/L	Renewal, Not reported, Solvent: DMSO	7-Ethoxyresorufin O-deethylase; Glutathione S-transferase; Superoxide dismutase (SOD) enzyme activity; Glutathione (reduced glutathione); Lipid peroxidation	{Zhang, 2014, 2528343@@author-year}	High	
3194-55-6	Japanese Littleneck Clam (*Venerupis philippinarum*)	Salt	10-day	LOAEL = 0.000086 mg AI/L; Gill tissue	0, 0.000086, 0.00086, 0.0086 mg/L	Renewal, Not reported, Solvent: DMSO	7-Ethoxyresorufin O-deethylase; Glutathione S-transferase; Superoxide dismutase (SOD) enzyme activity; Glutathione (reduced glutathione)	{Zhang, 2014, 2528343@@author-year}	High	

CAS RN	Test Species	Water Type	Duration	End-point	Conc(s)	Test Analysis	Effect(s)	References	Data Quality Ratings	HERO ID.
3194-55-6	Japanese Littleneck Clam (*Venerupis philippinarum*)	Salt	15-day	LOAEL = 0.000086 mg AI/L; Gill tissue	0, 0.000086, 0.00086, 0.0086 mg/L	Renewal, Not reported, Solvent: DMSO	7-Ethoxyresorufin O-deethylase; Glutathione S-transferase; Superoxide dismutase (SOD) enzyme activity; Glutathione (reduced glutathione)	{Zhang, 2014, 2528343@@author-year}	High	
3194-55-6	Japanese Littleneck Clam (*Venerupis philippinarum*)	Salt	1-day	NOAEL = 0.0086 mg AI/L; Gill tissue	0, 0.000086, 0.00086, 0.0086 mg/L	Renewal, Not reported, Solvent: DMSO	Glutathione S-transferase; Superoxide dismutase (SOD) enzyme activity	{Zhang, 2014, 2528343@@author-year}	High	
3194-55-6	Japanese Littleneck Clam (*Venerupis philippinarum*)	Salt	3-day	NOAEL = 0.000086 mg AI/L; LOAEL = 0.00086 mg AI/L; Gill tissue	0, 0.000086, 0.00086, 0.0086 mg/L	Renewal, Not reported, Solvent: DMSO	Glutathione S-transferase; Superoxide dismutase (SOD) enzyme activity; Glutathione (reduced glutathione); Lipid peroxidation; DNA damage	{Zhang, 2014, 2528343@@author-year}	High	
3194-55-6	Japanese Littleneck Clam (*Venerupis philippinarum*)	Salt	6-day	NOAEL = 0.000086 mg AI/L; LOAEL = 0.00086 mg AI/L; Gill tissue	0, 0.000086, 0.00086, 0.0086 mg/L	Renewal, Not reported, Solvent: DMSO	DNA damage	{Zhang, 2014, 2528343@@author-year}	High	
3194-55-6	Japanese Littleneck Clam (*Venerupis philippinarum*)	Salt	10-day	NOAEL = 0.000086 mg AI/L; LOAEL = 0.00086 mg AI/L; Gill tissue	0, 0.000086, 0.00086, 0.0086 mg/L	Renewal, Not reported, Solvent: DMSO	DNA damage; Lipid peroxidation	{Zhang, 2014, 2528343@@author-year}	High	
3194-55-6	Japanese Littleneck Clam (*Venerupis philippinarum*)	Salt	15-day	NOAEL = 0.00086 mg AI/L; LOAEL = 0.0086 mg AI/L; Gill tissue	0, 0.000086, 0.00086, 0.0086 mg/L	Renewal, Not reported, Solvent: DMSO	DNA damage	{Zhang, 2014, 2528343@@author-year}	High	

CAS RN	Test Species	Water Type	Duration	End-point	Conc(s)	Test Analysis	Effect(s)	References	Data Quality Ratings	HERO ID.
3194-55-6	Japanese Littleneck Clam (*Venerupis philippinarum*)	Salt	1-day	NOAEL = 0.00086 mg AI/L; LOAEL = 0.0086 mg AI/L; Gill tissue	0, 0.000086, 0.00086, 0.0086 mg/L	Renewal, Not reported, Solvent: DMSO	Lipid peroxidation	{Zhang, 2014, 2528343@@author-year}	High	
3194-55-6	Japanese Littleneck Clam (*Venerupis philippinarum*)	Salt	15-day	NOAEL = 0.000086 mg AI/L; LOAEL = 0.00086 mg AI/L; Gill tissue	0, 0.000086, 0.00086, 0.0086 mg/L	Renewal, Not reported, Solvent: DMSO	Lipid peroxidation	{Zhang, 2014, 2528343@@author-year}	High	
3194-55-6	Japanese Littleneck Clam (*Venerupis philippinarum*)	Salt	1-day	NOAEL = 0.000086 mg AI/L; LOAEL = 0.00086 mg AI/L ; Digestive gland	0, 0.000086, 0.00086, 0.0086 mg/L	Renewal, Not reported, Solvent: DMSO	7-Ethoxyresorufin O-deethylase; Glutathione (reduced glutathione); DNA damage	{Zhang, 2014, 2528343@@author-year}	High	
3194-55-6	Japanese Littleneck Clam (*Venerupis philippinarum*)	Salt	3-day	LOAEL = 0.000086 mg AI/L; Digestive gland	0, 0.000086, 0.00086, 0.0086 mg/L	Renewal, Not reported, Solvent: DMSO	7-Ethoxyresorufin O-deethylase	{Zhang, 2014, 2528343@@author-year}	High	
3194-55-6	Japanese Littleneck Clam (*Venerupis philippinarum*)	Salt	6-day	LOAEL = 0.000086 mg AI/L; Digestive gland	0, 0.000086, 0.00086, 0.0086 mg/L	Renewal, Not reported, Solvent: DMSO	7-Ethoxyresorufin O-deethylase; Glutathione S-transferase; Superoxide dismutase (SOD) enzyme activity; Glutathione (reduced glutathione); Lipid peroxidation	{Zhang, 2014, 2528343@@author-year}	High	

CAS RN	Test Species	Water Type	Duration	End-point	Conc(s)	Test Analysis	Effect(s)	References	Data Quality Ratings	HERO ID.
3194-55-6	Japanese Littleneck Clam (*Venerupis philippinarum*)	Salt	10-day	LOAEL = 0.000086 mg AI/L; Digestive gland	0, 0.000086, 0.00086, 0.0086 mg/L	Renewal, Not reported, Solvent: DMSO	7-Ethoxyresorufin O-deethylase; Glutathione S-transferase; Superoxide dismutase (SOD) enzyme activity; Glutathione (reduced glutathione)	{Zhang, 2014, 2528343@@author-year}	High	
3194-55-6	Japanese Littleneck Clam (*Venerupis philippinarum*)	Salt	15-day	LOAEL = 0.000086 mg AI/L; Digestive gland	0, 0.000086, 0.00086, 0.0086 mg/L	Renewal, Not reported, Solvent: DMSO	7-Ethoxyresorufin O-deethylase; Glutathione S-transferase; Superoxide dismutase (SOD) enzyme activity; Glutathione (reduced glutathione)	{Zhang, 2014, 2528343@@author-year}	High	
3194-55-6	Japanese Littleneck Clam (*Venerupis philippinarum*)	Salt	1-day	NOAEL = 0.0086 mg AI/L; Digestive gland	0, 0.000086, 0.00086, 0.0086 mg/L	Renewal, Not reported, Solvent: DMSO	Glutathione S-transferase; Superoxide dismutase (SOD) enzyme activity	{Zhang, 2014, 2528343@@author-year}	High	
3194-55-6	Japanese Littleneck Clam (*Venerupis philippinarum*)	Salt	3-day	NOAEL = 0.000086 mg AI/L; LOAEL = 0.00086 mg AI/L; Digestive gland	0, 0.000086, 0.00086, 0.0086 mg/L	Renewal, Not reported, Solvent: DMSO	Glutathione S-transferase; Superoxide dismutase (SOD) enzyme activity; Glutathione (reduced glutathione); DNA damage; Lipid peroxidation	{Zhang, 2014, 2528343@@author-year}	High	
3194-55-6	Japanese Littleneck Clam (*Venerupis philippinarum*)	Salt	6-day	NOAEL = 0.000086 mg AI/L; LOAEL = 0.00086 mg AI/L; Digestive gland	0.000086, 0.00086, 0.0086 mg/L	Renewal, Not reported, Solvent: DMSO	DNA damage	{Zhang, 2014, 2528343@@author-year}	High	

CAS RN	Test Species	Water Type	Duration	End-point	Conc(s)	Test Analysis	Effect(s)	References	Data Quality Ratings	HERO ID.
3194-55-6	Japanese Littleneck Clam (*Venerupis philippinarum*)	Salt	10-day	NOAEL = 0.000086 mg AI/L; LOAEL = 0.00086 mg AI/L; Digestive gland	0.000086, 0.00086, 0.0086 mg/L	Renewal, Not reported, Solvent: DMSO	DNA damage; Lipid peroxidation	{Zhang, 2014, 2528343@@author-year}	High	
3194-55-6	Japanese Littleneck Clam (*Venerupis philippinarum*)	Salt	15-day	NOAEL = 0.00086 mg AI/L; LOAEL = 0.0086 mg AI/L; Digestive gland	0.000086, 0.00086, 0.0086 mg/L	Renewal, Not reported, Solvent: DMSO	DNA damage	{Zhang, 2014, 2528343@@author-year}	High	
3194-55-6	Japanese Littleneck Clam (*Venerupis philippinarum*)	Salt	1-day	NOAEL = 0.00086 mg AI/L; LOAEL = 0.0086 mg AI/L; Digestive gland	0.000086, 0.00086, 0.0086 mg/L	Renewal, Not reported, Solvent: DMSO	Lipid peroxidation	{Zhang, 2014, 2528343@@author-year}	High	
3194-55-6	Japanese Littleneck Clam (*Venerupis philippinarum*)	Salt	15-day	NOAEL = 0.000086 mg AI/L; LOAEL = 0.00086 mg AI/L; Digestive gland	0.000086, 0.00086, 0.0086 mg/L	Renewal, Not reported, Solvent: DMSO	Lipid peroxidation	{Zhang, 2014, 2528343@@author-year}	High	
25637-99-4	Japanese Littleneck Clam (*Venerupis philippinarum*)	Salt	3-day	LOAEL = 0.000086 mg AI/L	0, 0.000086, 0.00086, 0.0086 mg/L	Renewal, Nominal, Solvent: DMSO	Ferritin mRNA; Catalase mRNA; Dihydrodiol dehydrogenase mRNA; Cytochrome c oxidase subunit 1 mRNA; NADH: ubiquinone reductase (H(+)-translocating) mRNA	{Zhang, 2014, 2528343@@author-year}	Unacceptable	1928024

CAS RN	Test Species	Water Type	Duration	End-point	Conc(s)	Test Analysis	Effect(s)	References	Data Quality Ratings	HERO ID.
25637-99-4	Japanese Littleneck Clam (*Venerupis philippinarum*)	Salt	10-day	LOAEL = 0.000086 mg AI/L	0, 0.000086, 0.00086, 0.0086 mg/L	Renewal, Nominal, Solvent: DMSO	Ferritin mRNA; Catalase mRNA; Dihydrodiol dehydrogenase mRNA; C-type Lectin like mRNA; Elongation factor-1 alpha mRNA; Hemocyanin subunit 2 mRNA	{Zhang, 2014, 2528343@@author-year}	Unacceptable	
25637-99-4	Japanese Littleneck Clam (*Venerupis philippinarum*)	Salt	10-day	NOAEL = 0.0086 mg AI/L	0, 0.000086, 0.00086, 0.0086 mg/L	Renewal, Nominal, Solvent: DMSO	Cytochrome c oxidase subunit 1 mRNA	{Zhang, 2014, 2528343@@author-year}	Unacceptable	
25637-99-4	Japanese Littleneck Clam (*Venerupis philippinarum*)	Salt	10-day	NOAEL = 0.000086 mg AI/L; LOAEL = 0.00086 mg AI/L	0, 0.000086, 0.00086, 0.0086 mg/L	Renewal, Nominal, Solvent: DMSO	NADH: ubiquinone reductase (H(+)-translocating) mRNA	{Zhang, 2014, 2528343@@author-year}	Unacceptable	
25637-99-4	Japanese Littleneck Clam (*Venerupis philippinarum*)	Salt	10-day	NOAEL = 0.00086 mg AI/L; LOAEL = 0.0086 mg AI/L	0, 0.000086, 0.00086, 0.0086 mg/L	Renewal, Nominal, Solvent: DMSO	Purine nucleoside phosphorylase mRNA	{Zhang, 2014, 2528343@@author-year}	Unacceptable	
25637-99-4	Sea urchin (*Psammechinus miliaris*)	Salt	72 hours post fertilization	NOAEL = 0.06416989 mg AI/L; Exp. A	0, 0.006, 0.016, 0.032, 0.064 mg/L	Renewal, Nominal, Solvent: DMSO	Growth: Abnormal	{Anselmo, 2011, 1274149@@author-year}	High	1274149
25637-99-4	Sea urchin (*Psammechinus miliaris*)	Salt	72 hours post fertilization	NOAEL = 0.032 mg AI/L; LOAEL = 0.064 mg AI/L; Exp. B	0, 0.006, 0.016, 0.032, 0.064 mg/L	Renewal, Nominal, Solvent: DMSO	Growth: Abnormal	{Anselmo, 2011, 1274149@@author-year}	High	
25637-99-4	Sea urchin (*Psammechinus miliaris*)	Salt	2-4 days post fertilization	NOAEL = 0.032 mg AI/L; LOAEL = 0.064 mg AI/L; Exp. A	0, 0.006, 0.016, 0.032, 0.064 mg/L	Renewal, Nominal, Solvent: DMSO	Growth: Abnormal	{Anselmo, 2011, 1274149@@author-year}	High	
25637-99-4	Sea urchin (*Psammechinus miliaris*)	Salt	2-4 days post fertilization	NOAEL = 0.032 mg AI/L; LOAEL = 0.064 mg AI/L; Exp. B	0, 0.006, 0.016, 0.032, 0.064 mg/L	Renewal, Nominal, Solvent: DMSO	Growth: Abnormal	{Anselmo, 2011, 1274149@@author-year}	High	

CAS RN	Test Species	Water Type	Duration	End-point	Conc(s)	Test Analysis	Effect(s)	References	Data Quality Ratings	HERO ID.
25637-99-4	Sea urchin (*Psammechinus miliaris*)	Salt	2-4 days post fertilization	EC_{50} = 0.0453 mg AI/L; Exp. B	0, 0.006, 0.016, 0.032, 0.064 mg/L	Renewal, Nominal, Solvent: DMSO	Growth: Abnormal	{Anselmo, 2011, 1274149@@author-year}	High	
25637-99-4	Sea urchin (*Psammechinus miliaris*)	Salt	7-9 days post fertilization	NOAEL = 0.0320 mg AI/L; LOAEL = 0.064 mg AI/L; Exp. B	0, 0.006, 0.016, 0.032, 0.064 mg/L	Renewal, Nominal, Solvent: DMSO	Growth: Abnormal	{Anselmo, 2011, 1274149@@author-year}	High	
25637-99-4	Sea urchin (*Psammechinus miliaris*)	Salt	7-9 days post fertilization	EC_{50} = 0.040407 mg AI/L; Exp. B	0, 0.006, 0.016, 0.032, 0.064 mg/L	Renewal, Nominal, Solvent: DMSO	Growth: Abnormal	{Anselmo, 2011, 1274149@@author-year}	High	
25637-99-4	Sea urchin (*Psammechinus miliaris*)	Salt	14-16 days post fertilization	NOAEL = 0.0325 mg AI/L; LOAEL = 0.064 mg AI/L; Exp. A	0, 0.006, 0.016, 0.032, 0.064 mg/L	Renewal, Nominal, Solvent: DMSO	Growth: Abnormal	{Anselmo, 2011, 1274149@@author-year}	High	
25637-99-4	Sea urchin (*Psammechinus miliaris*)	Salt	14-16 days post fertilization	EC50 = 0.056 mg AI/L; Exp. A	0, 0.006, 0.016, 0.032, 0.064 mg/L	Renewal, Nominal, Solvent: DMSO	Growth: Abnormal	{Anselmo, 2011, 1274149@@author-year}	High	
25637-99-4	Sea urchin (*Psammechinus miliaris*)	Salt	14-16 days post fertilization	NOAEL = 0.0325 mg AI/L; LOAEL = 0.064 mg AI/L; Exp. B	0, 0.006, 0.016, 0.032, 0.064 mg/L	Renewal, Nominal, Solvent: DMSO	Growth: Abnormal	{Anselmo, 2011, 1274149@@author-year}	High	
25637-99-4	Sea urchin (*Psammechinus miliaris*)	Salt	14-16 days post fertilization	EC_{50} = 0.035mg AI/L; Exp. B	0, 0.006, 0.016, 0.032, 0.064 mg/L	Renewal, Nominal, Solvent: DMSO	Growth: Abnormal	{Anselmo, 2011, 1274149@@author-year}	High	
25637-99-4	Sea urchin (*Psammechinus miliaris*)	Salt	16 days post fertilization	NOAEL = 0.032 mg AI/L; LOAEL = 0.064 mg AI/L; Exp. A	0, 0.006, 0.016, 0.032, 0.064 mg/L	Renewal, Nominal, Solvent: DMSO	Growth: Develop-ment	{Anselmo, 2011, 1274149@@author-year}	High	
25637-99-4	Sea urchin (*Psammechinus miliaris*)	Salt	16 days post fertilization	NOAEL = 0.0058 mg AI/L; LOAEL = 0.016 mg AI/L Exp. B	0, 0.006, 0.016, 0.032, 0.064 mg/L	Renewal, Nominal, Solvent: DMSO	Growth: Develop-ment	{Anselmo, 2011, 1274149@@author-year}	High	
25637-99-4	Harpacticoid Copepod (*Tigriopus japonicus*)	Salt	96-hour	NOEC = 0.8 mg AI/L; LOEC = >0.8 mg AI/L	0, 0, 0.08, 0.3, 0.8 mg/L	Renewal, Nominal, Solvent: DMSO	Mortality	{Shi, 2017, 3546057@@author-year}	High	3546057
25637-99-4	Harpacticoid Copepod (*Tigriopus japonicus*)	Salt	96-hour	Kinetic BCF = 87,300	0, 0.002 mg/L	Renewal, Nominal	Residue; bioconcentration	{Shi, 2017, 3546057@@author-year}	High	

CAS RN	Test Species	Water Type	Duration	End-point	Conc(s)	Test Analysis	Effect(s)	References	Data Quality Ratings	HERO ID.
25637-99-4	Harpacticoid Copepod (*Tigriopus japonicus*)	Salt	96-hour	Steady-State BCF = 63,400	0, 0.002 mg/L	Renewal, Nominal	Residue; bioconcentration	{Shi, 2017, 3546057@@author-year}	High	
25637-99-4	Harpacticoid Copepod (*Tigriopus japonicus*)	Salt	96-hour	Lipid-Normalized Kinetic BCF = 78,400	0, 0.002 mg/L	Renewal, Nominal	Residue; bioconcentration	{Shi, 2017, 3546057@@author-year}	High	
25637-99-4	Harpacticoid Copepod (*Tigriopus japonicus*)	Salt	3-day	NOAEL = 0.8 mg AI/L	0, 0, 0.3, 0.8 mg/L	Renewal, Nominal, Solvent: DMSO	Glutathione S-transferase mRNA; p53 mRNA	{Shi, 2017, 3546057@@author-year}	High	
25637-99-4	Harpacticoid Copepod (*Tigriopus japonicus*)	Salt	7-day	NOAEL = 0.8 mg AI/L	0, 0, 0.3, 0.8 mg/L	Renewal, Nominal, Solvent: DMSO	Glutathione S-transferase mRNA; Catalase; p53 mRNA; Superoxide dismutase mRNA	{Shi, 2017, 3546057@@author-year}	High	
25637-99-4	Harpacticoid Copepod (*Tigriopus japonicus*)	Salt	14-day	NOAEL = 0.3 mg AI/L; LOAEL = 0.8 mg AI/L	0, 0, 0.3, 0.8 mg/L	Renewal, Nominal, Solvent: DMSO	Glutathione S-transferase mRNA; 8-oxoguanine DNA glycosylase mRNA; p53 mRNA	{Shi, 2017, 3546057@@author-year}	High	
25637-99-4	Harpacticoid Copepod (*Tigriopus japonicus*)	Salt	3-day	NOAEL = 0.3 mg AI/L; LOAEL = 0.8 mg AI/L	0, 0, 0.3, 0.8 mg/L	Renewal, Nominal, Solvent: DMSO	Catalase; 8-oxoguanine DNA glycosylase mRNA; Superoxide dismutase mRNA	{Shi, 2017, 3546057@@author-year}	High	
25637-99-4	Harpacticoid Copepod (*Tigriopus japonicus*)	Salt	14-day	LOAEL = 0.3 mg AI/L	0, 0, 0.3, 0.8 mg/L	Renewal, Nominal, Solvent: DMSO	Catalase; Caspase-3 mRNA	{Shi, 2017, 3546057@@author-year}	High	
25637-99-4	Harpacticoid Copepod (*Tigriopus japonicus*)	Salt	7-day	NOAEL = 0.3 mg AI/L; LOAEL = 0.8 mg AI/L	0, 0, 0.3, 0.8 mg/L	Renewal, Nominal, Solvent: DMSO	8-oxoguanine DNA glycosylase mRNA	{Shi, 2017, 3546057@@author-year}	High	

CAS RN	Test Species	Water Type	Duration	End-point	Conc(s)	Test Analysis	Effect(s)	References	Data Quality Ratings	HERO ID.
25637-99-4	Harpacticoid Copepod (*Tigriopus japonicus*)	Salt	3-day	LOAEL = 0.3 mg AI/L	0, 0, 0.3, 0.8 mg/L	Renewal, Nominal, Solvent: DMSO	Caspase-3 mRNA	{Shi, 2017, 3546057@@author-year}	High	
25637-99-4	Harpacticoid Copepod (*Tigriopus japonicus*)	Salt	7-day	LOAEL = 0.3 mg AI/L	0, 0, 0.3, 0.8 mg/L	Renewal, Nominal, Solvent: DMSO	Caspase-3 mRNA	{Shi, 2017, 3546057@@author-year}	High	
25637-99-4	Harpacticoid Copepod (*Tigriopus japonicus*)	Salt	10-day	NOAEL = 0.8 mg AI/L; F0 generation	0, 0, 0.008, 0.03, 0.08, 0.3, 0.8 mg/L	Renewal, Nominal, Solvent: DMSO	Reproductive: Fecundity; Progeny counts/numbers; Sex ratio	{Shi, 2017, 3546057@@author-year}	High	
25637-99-4	Harpacticoid Copepod (*Tigriopus japonicus*)	Salt	10-day	NOAEL = 0.8 mg AI/L; F1 generation	0, 0, 0.008, 0.03, 0.08, 0.3, 0.8 mg/L	Renewal, Nominal, Solvent: DMSO	Reproductive: Fecundity; Progeny counts/numbers; Sex ratio	{Shi, 2017, 3546057@@author-year}	High	
25637-99-4	Harpacticoid Copepod (*Tigriopus japonicus*)	Salt	20-day	NOEC = 0.08 mg AI/L; LOEC = 0.3 mg AI/L; F0 generation; maturation period	0, 0, 0.008, 0.03, 0.08, 0.3, 0.8 mg/L	Renewal, Nominal, Solvent: DMSO	Growth, Developmental stage	{Shi, 2017, 3546057@@author-year}	High	
25637-99-4	Harpacticoid Copepod (*Tigriopus japonicus*)	Salt	20-day	NOEC = 0.008 mg AI/L; LOEC = 0.03 mg AI/L; F1 generation; maturation period	0, 0, 0.008, 0.03, 0.08, 0.3, 0.8 mg/L	Renewal, Nominal, Solvent: DMSO	Growth, Developmental stage	{Shi, 2017, 3546057@@author-year}	High	
25637-99-4	Harpacticoid Copepod (*Tigriopus japonicus*)	Salt	20-day	NOEC = 0.008 mg AI/L; LOEC = 0.03 mg AI/L; F0 generation; nauplius phase	0, 0, 0.008, 0.03, 0.08, 0.3, 0.8 mg/L	Renewal, Nominal, Solvent: DMSO	Growth, Developmental stage	{Shi, 2017, 3546057@@author-year}	High	
25637-99-4	Harpacticoid Copepod (*Tigriopus japonicus*)	Salt	20-day	LOEC = 0.008 mg AI/L; F1 generation; nauplius phase	0, 0, 0.008, 0.03, 0.08, 0.3, 0.8 mg/L	Renewal, Nominal, Solvent: DMSO	Growth, Developmental stage	{Shi, 2017, 3546057@@author-year}	High	
25637-99-4	Harpacticoid Copepod (*Tigriopus japonicus*)	Salt	40-day	NOEC = 0.8 mg AI/L	0, 0, 0.008, 0.03, 0.08, 0.3, 0.8 mg/L	Renewal, Nominal, Solvent: DMSO	Mortality	{Shi, 2017, 3546057@@author-year}	High	

CAS RN	Test Species	Water Type	Duration	End-point	Conc(s)	Test Analysis	Effect(s)	References	Data Quality Ratings	HERO ID.
25637-99-4	Balic Macoma Or Clam (*Macoma balthica*)	Salt	50-day	LOAEL = 0.1 mg/L	0, 0.1, 0.25 mg/L	Multiple routes, Nominal	Nuclear abnormality: micronuclei; frequency of dead cells; Mean number of nucleoli; binucleated cells, formation of nucleoplasmic bridges, nuclear buds, occurrence of pleomorphic and hypertrophic cells	{Smolarz, 2009, 1927697@@author-year}	High	1927697
25637-99-4	Amphipod (*Hyalella azteca*)	Fresh	28-day	NOEC > 1000 mg/kg dwt sediment	31,63, 125, 250, 500 and 1,000 mg/kg dwt sediment (Nominal concentrations)	Flow-through, Measured, Solvent: DMF range-finding study conducted in the presence of 2 % TOC. Further study details were not provided.	reduced survivability	{Thomas, 2003, 4269889@@author-year}	High	4269889
25637-99-4	Amphipod (*Hyalella azteca*)	Fresh	28-day	LOEC = 1000 mg/kg dwt sediment	31,63, 125, 250, 500 and 1,000 mg/kg dwt sediment (Nominal concentrations)	Flow-through, Measured, Solvent: DMF range-finding study conducted in the presence of 2 % TOC. Further study details were not provided.	reduced survivability	{Thomas, 2003, 4269889@@author-year}	High	
25637-99-4	Amphipod (*Hyalella azteca*)	Fresh	28-day	NOEC = 1000 mg/kg dwt sediment	31,63, 125, 250, 500 and 1,000 mg/kg dwt sediment (Nominal concentrations)	Flow-through, Measured, Solvent: DMF range-finding study conducted in the presence of 5% TOC. Further study details were not provided.	reduced survivability	{Thomas, 2003, 4269912@@author-year}	High	4269912
25637-99-4	Amphipod (*Hyalella azteca*)	Fresh	28-day	NOEC = 1000 mg/kg dwt sediment	31,63, 125, 250, 500 and 1,000 mg/kg dwt sediment (Nominal concentrations)	Flow-through, Measured, Solvent: DMF range-finding study conducted in the presence of 5% TOC. Further study details were not provided.	reduced survivability	{Thomas, 2003, 4269912@@author-year}	High	

CAS RN	Test Species	Water Type	Duration	End-point	Conc(s)	Test Analysis	Effect(s)	References	Data Quality Ratings	HERO ID.
	Worm *(Lumbriculus variegatus)*	Fresh	28-day	NOEC = 3.1 mg/kg dry weight sediment	0.05, 0.5, 5, 50, and 500 mg/kg dry weight sediment. measured concentrations were ND, 0.2, 3.1, 28.7, and 303.2 mg/kg dry weight.	28-day static test using dechlorinated tap water measured concentrations-0, nd3, 0.25, 3.25, 29.25 and 311.35 mg/kg sediment dw; 40 worms per treatment; artificial sediment: 1.8% organic carbon, grain size 100–2000 µm;	Total number of worms	{Oetken, 2001, 3809143@@author-year}	High	3809143
	Worm *(Lumbriculus variegatus)*	Fresh	28-day	LOEC = 28.7 mg/kg dry weight sediment	0.05, 0.5, 5, 50, and 500 mg/kg dry weight sediment. measured concentrations were ND, 0.2, 3.1, 28.7, and 303.2 mg/kg dry weight.	28-day static test using dechlorinated tap water measured concentrations-0, nd3, 0.25, 3.25, 29.25 and 311.35 mg/kg sediment dw; 40 worms per treatment; artificial sediment: 1.8% organic carbon, grain size 100–2000 µm;	Total number of worms	{Oetken, 2001, 3809143@@author-year}	High	
	Worm *(Lumbriculus variegatus)*	Fresh	28-day	NOEC = 28.7 mg/kg dry weight sediment	0.05, 0.5, 5, 50, and 500 mg/kg dry weight sediment. measured concentrations were ND, 0.2, 3.1, 28.7, and 303.2 mg/kg dry weight.	28-day static test using dechlorinated tap water measured concentrations-0, nd3, 0.25, 3.25, 29.25 and 311.35 mg/kg sediment dw; 40 worms per treatment; artificial sediment: 1.8% organic carbon, grain size 100–2000 µm;	Large vs small worms	{Oetken, 2001, 3809143@@author-year}	High	
	Worm *(Lumbriculus variegatus)*	Fresh	28-day	NOEC = 3.1 mg/kg dry weight sediment	0.05, 0.5, 5, 50, and 500 mg/kg dry weight sediment. measured concentrations were ND, 0.2, 3.1, 28.7, and 303.2 mg/kg dry weight.	28-day static test using dechlorinated tap water measured concentrations-0, nd3, 0.25, 3.25, 29.25 and 311.35 mg/kg sediment dw; 40 worms per treatment; artificial sediment: 1.8% organic carbon, grain size 100–2000 µm;	Large vs small worms	{Oetken, 2001, 3809143@@author-year}	High	
Aquatic Vertebrates										

CAS RN	Test Species	Water Type	Duration	End-point	Conc(s)	Test Analysis	Effect(s)	References	Data Quality Ratings	HERO ID.
1837-91-8	Rainbow trout (*Oncorhynchus mykiss*)	Fresh	2-hour	NOAEL = 27.877 mg AI/L	0, 27.877 mg/L	*In vitro*, Nominal	Insulin-like growth factor 1 mRNA; Signal Transducer and Activator of Transcription protein 5	{Reindl, 2011, 3586425@@author-year}	High	3586425
25637-99-4	Bluegill (*Lepomis macrochirus*)	Fresh	24-hour	LC_{50} = >100 mg AI/L	0, 0, 10.0, 18.0, 32.0, 56.0, 100.0 mg/L	Static, Nominal, Solvent: Acetone	Mortality	{Great Lakes Chem Corp, 1994, 1928289@@author-year}	High	1928289
25637-99-4	Bluegill (*Lepomis macrochirus*)	Fresh	48-hour	LC_{50} = >100 mg AI/L	0, 0, 10.0, 18.0, 32.0, 56.0, 100.0 mg/L	Static, Nominal, Solvent: Acetone	Mortality	{Great Lakes Chem Corp, 1994, 1928289@@author-year}	High	
25637-99-4	Bluegill (*Lepomis macrochirus*)	Fresh	96-hour	LC_{50} = >100 mg AI/L	0, 0, 10.0, 18.0, 32.0, 56.0, 100.0 mg/L	Static, Nominal, Solvent: Acetone	Mortality	{Great Lakes Chem Corp, 1994, 1928289@@author-year}	High	
25637-99-4	Bluegill (*Lepomis macrochirus*)	Fresh	96-hour	NOEC = >100 mg AI/L	0, 0, 10.0, 18.0, 32.0, 56.0, 100.0 mg/L	Static, Nominal, Solvent: Acetone	Mortality	{Great Lakes Chem Corp, 1994, 1928289@@author-year}	High	
25637-99-4	Bluegill (*Lepomis macrochirus*)	Fresh	96-hour	NR-ZERO = >100 mg AI/L	0, 0, 10.0, 18.0, 32.0, 56.0, 100.0 mg/L	Static, Nominal, Solvent: Acetone	Abnormal behavior	{Great Lakes Chem Corp, 1994, 1928289@@author-year}	High	
3194-55-6	Zebrafish (*Danio rerio*)	Fresh	72-hour	NOAEL = 32 mg AI/L	0, 32 mg/L	Static, Nominal	Thyroxine	{Thienpont, 2011, 1062065@@author-year}	Low	1062065
25637-99-4	Bluegill (*Lepomis macrochirus*)	Fresh	24-hour	LC_{50} = >100 mg AI/L	0, 0, 10.0, 18.0, 32.0, 56.0, 100.0 mg/L	Static, Nominal	Mortality	{Great Lakes Chem Corp, 1994, 1928289@@author-year}	Unacceptable	1928289

CAS RN	Test Species	Water Type	Duration	End-point	Conc(s)	Test Analysis	Effect(s)	References	Data Quality Ratings	HERO ID.
25637-99-4	Bluegill (*Lepomis macrochirus*)	Fresh	48-hour	LC_{50} = >100 mg AI/L	0, 0, 10.0, 18.0, 32.0, 56.0, 100.0 mg/L	Static, Nominal	Mortality	{Great Lakes Chem Corp, 1994, 1928289@@author-year}	Unacceptable	
25637-99-4	Bluegill (*Lepomis macrochirus*)	Fresh	96-hour	LC_{50} = >100 mg AI/L	0, 0, 10.0, 18.0, 32.0, 56.0, 100.0 mg/L	Static, Nominal	Mortality	{Great Lakes Chem Corp, 1994, 1928289@@author-year}	Unacceptable	
25637-99-4	Bluegill (*Lepomis macrochirus*)	Fresh	96-hour	NOEC = 100 mg AI/L	0, 0, 10.0, 18.0, 32.0, 56.0, 100.0 mg/L	Static, Nominal	Abnormal behavior	{Great Lakes Chem Corp, 1994, 1928289@@author-year}	Unacceptable	
25637-99-4	Bluegill (*Lepomis macrochirus*)	Fresh	96-hour	NR-ZERO = 100 mg AI/L	0, 0, 10.0, 18.0, 32.0, 56.0, 100.0 mg/L	Static, Nominal	Mortality	{Great Lakes Chem Corp, 1994, 1928289@@author-year}	Unacceptable	
25637-99-4	Rainbow trout (*Oncorhynchus mykiss*)	Fresh	24-hour	LC_{50} = >0.0025 mg AI/L	0, 0, 0.00075, 0.0015, 0.0023, 0.0023, 0.0025 mg/L	Flow-through, Measured. Solvent: DMF	Mortality	{Wildlife Intl LTD, 1997, 1928298@@author-year}	High	3586422 1928298
25637-99-4	Rainbow trout (*Oncorhynchus mykiss*)	Fresh	48-hour	LC_{50} = >0.0025 mg AI/L	0, 0, 0.00075, 0.0015, 0.0023, 0.0023, 0.0025 mg/L	Flow-through, Measured, Solvent: DMF	Mortality	{Wildlife Intl LTD, 1997, 1928298@@author-year}	High	
25637-99-4	Rainbow trout (*Oncorhynchus mykiss*)	Fresh	72-hour	LC_{50} = >0.0025 mg AI/L	0, 0, 0.00075, 0.0015, 0.0023, 0.0023, 0.0025 mg/L	Flow-through, Measured, Solvent: DMF	Mortality	{Wildlife Intl LTD, 1997, 1928298@@author-year}	High	
25637-99-4	Rainbow trout (*Oncorhynchus mykiss*)	Fresh	96-hour	LC_{50} = >0.0025 mg AI/L	0, 0, 0.00075, 0.0015, 0.0023, 0.0023, 0.0025 mg/L	Flow-through, Measured, Solvent: DMF	Mortality	{Wildlife Intl LTD, 1997, 1928298@@author-year}	High	
25637-99-4	Rainbow trout (*Oncorhynchus mykiss*)	Fresh	96-hour	NOEC = 0.0025 mg AI/L	0, 0, 0.00075, 0.0015, 0.0023, 0.0023, 0.0025 mg/L	Flow-through, Measured	Mortality	{Wildlife Intl LTD, 1997, 1928298@@author-year}	High	

CAS RN	Test Species	Water Type	Duration	End-point	Conc(s)	Test Analysis	Effect(s)	References	Data Quality Ratings	HERO ID.
25637-99-4	Rainbow trout (*Oncorhynchus mykiss*)	Fresh	96-hour	NR-ZERO = >0.0025 mg AI/L	0, 0, 0.00075, 0.0015, 0.0023, 0.0023, 0.0025 mg/L	Flow-through, Measured, Solvent: DMF	Mortality	{Wildlife Intl LTD, 1997, 1928298@@author-year}	High	
3194-55-6	Zebrafish (*Danio rerio*)	Not reported	47-hour	NOAEL = 0.128 mg AI/L	0, 0.001, 0.013, 0.128 mg/L	Renewal, Nominal, Solvent: DMSO	Hatching rate	{Wu, 2013, 1927533@@author-year}	High	1927533
3194-55-6	Zebrafish (*Danio rerio*)	Not reported	47-hour	NOAEL = 0.013 mg AI/L; LOAEL = 0.128 mg AI/L	0, 0.001, 0.013, 0.128 mg/L	Renewal, Nominal, Solvent: DMSO	Heart rate	{Wu, 2013, 1927533@@author-year}	High	
3194-55-6	Zebrafish (*Danio rerio*)	Not reported	59-hour	LOAEL = 0.001 mg AI/L	0, 0.001, 0.013, 0.128 mg/L	Renewal, Nominal, Solvent: DMSO	Heart rate	{Wu, 2013, 1927533@@author-year}	High	
3194-55-6	Zebrafish (*Danio rerio*)	Not reported	71-hour	LOAEL = 0.001 mg AI/L	0, 0.001, 0.013, 0.128 mg/L	Renewal, Nominal, Solvent: DMSO	Heart rate; T-box 5a mRNA; Homeobox protein Nkx-2.5 mRNA	{Wu, 2013, 1927533@@author-year}	High	
3194-55-6	Zebrafish (*Danio rerio*)	Not reported	71-hour	NOAEL = 0.001 mg AI/L; LOAEL = 0.013 mg AI/L	0, 0.001, 0.013, 0.128 mg/L	Renewal, Nominal, Solvent: DMSO	Cardiac arrhythmia	{Wu, 2013, 1927533@@author-year}	High	

CAS RN	Test Species	Water Type	Duration	End-point	Conc(s)	Test Analysis	Effect(s)	References	Data Quality Ratings	HERO ID.
3194-55-6	Zebrafish (*Danio rerio*)	Not reported	71-hour	NOAEL = 0.128 mg AI/L	0, 0.001, 0.013, 0.128 mg/ L	Renewal, Nominal, Solvent: DMSO	ATPase, Ca++ transporting, cardiac muscle, slow twitch 2a mRNA; Troponin T type 2a (cardiac) mRNA; myH6 expression; End-diastolic Volume; Stroke volume; Caspase 3; Actin, alpha, cardiac muscle 1a mRNA; Myosin, heavy chain 6, cardiac muscle, alpha mRNA; Cardiac output; End-systolic Volume; Mortality; Abnormal; whole malformation rate	{Wu, 2013, 1927533@@author-year}	High	
3194-55-6	Zebrafish (*Danio rerio*)	Not reported	71-hour	NOAEL = 0.013 mg AI/L; LOAEL = 0.128 mg AI/L	0, 0.001, 0.013, 0.128 mg/L	Renewal, Nominal, Solvent: DMSO	ATPase, Ca++ transporting, cardiac muscle, slow twitch 2b mRNA; Ryanodine receptor 2a (cardiac) mRNA	{Wu, 2013, 1927533@@author-year}	High	
134237-52-8	Zebrafish (*Danio rerio*)	Fresh	44-hour	NOEC = 0.01 mg AI/L; LOEC = 0.1 mg AI/L	0, 0.01, 0.1, 1.0 mg/L	Renewal, Nominal, Solvent: DMSO	Heart rate	{Du, 2012, 1927610@@author-year}	High	1927610
134237-52-8	Zebrafish (*Danio rerio*)	Fresh	68-hour	LOEC = 0.01 mg AI/L	0, 0.01, 0.1, 1.0 mg/L	Renewal, Nominal, Solvent: DMSO	Hatching success	{Du, 2012, 1927610@@author-year}	High	
134237-52-8	Zebrafish (*Danio rerio*)	Fresh	92-hour	NOEC = 0.1 mg AI/L; LOEC = 1 mg AI/L	0, 0.01, 0.1, 1.0 mg/L	Renewal, Nominal, Solvent: DMSO	Heart rate	{Du, 2012, 1927610@@author-year}	High	

CAS RN	Test Species	Water Type	Duration	End-point	Conc(s)	Test Analysis	Effect(s)	References	Data Quality Ratings	HERO ID.
134237-52-8	Zebrafish (*Danio rerio*)	Fresh	92-hour	NOEC = 0.01 mg AI/L; LOEC = 0.1 mg AI/L	0, 0.01, 0.1, 1.0 mg/L	Renewal, Nominal, Solvent: DMSO	Growth: Length	{Du, 2012, 1927610@@author-year}	High	
134237-52-8	Zebrafish (*Danio rerio*)	Fresh	92-hour	LOEC = 0.01 mg AI/L	0, 0.01, 0.1, 1.0 mg/L	Renewal, Nominal, Solvent: DMSO	Mortality	{Du, 2012, 1927610@@author-year}	High	
134237-52-8	Zebrafish (*Danio rerio*)	Fresh	116-hour	LOEC = 0.01 mg AI/L	0, 0.01, 0.1, 1.0 mg/L	Renewal, Nominal, Solvent: DMSO	Growth: Abnormal. Malformation rate	{Du, 2012, 1927610@@author-year}	High	
134237-52-8	Zebrafish (*Danio rerio*)	Fresh	116-hour	NOEC = 0.01 mg AI/L; LOEC = 0.1 mg AI/L	0, 0.01, 0.1, 1.0 mg/L	Renewal, Nominal, Solvent: DMSO	Reactive oxygen species; Caspase 3; Caspase 9	{Du, 2012, 1927610@@author-year}	High	
134237-51-7	Zebrafish (*Danio rerio*)	Fresh	44-hour	NOEC = 0.01 mg AI/L; LOEC = 0.1 mg AI/L	0, 0.01, 0.1, 1.0 mg/L	Renewal, Nominal, Solvent: DMSO	Heart rate	{Du, 2012, 1927610@@author-year}	High	
134237-51-7	Zebrafish (*Danio rerio*)	Fresh	68-hour	NOEC = 0.01 mg AI/L; LOEC = 0.1 mg AI/L	0, 0.01, 0.1, 1.0 mg/L	Renewal, Nominal, Solvent: DMSO	Hatching success	{Du, 2012, 1927610@@author-year}	High	
134237-51-7	Zebrafish (*Danio rerio*)	Fresh	92-hour	NOEC = 0.01 mg AI/L; LOEC = 0.1 mg AI/L	0, 0.01, 0.1, 1.0 mg/L	Renewal, Nominal, Solvent: DMSO	Growth: Length ; Heart rate; Mortality	{Du, 2012, 1927610@@author-year}	High	
134237-51-7	Zebrafish (*Danio rerio*)	Fresh	116-hour	LOEC = 0.01 mg AI/L	0, 0.01, 0.1, 1.0 mg/L	Renewal, Nominal, Solvent: DMSO	Growth: Abnormal. Malformation rate	{Du, 2012, 1927610@@author-year}	High	
134237-51-7	Zebrafish (*Danio rerio*)	Fresh	116-hour	NOEC = 0.01 mg AI/L; LOEC = 0.1 mg AI/L	0, 0.01, 0.1, 1.0 mg/L	Renewal, Nominal, Solvent: DMSO	Reactive oxygen species	{Du, 2012, 1927610@@author-year}	High	
134237-51-7	Zebrafish (*Danio rerio*)	Fresh	116-hour	NOEC = 0.1 mg AI/L; LOEC = 1 mg AI/L	0, 0.01, 0.1, 1.0 mg/L	Renewal, Nominal, Solvent: DMSO	Caspase 3; Caspase 9	{Du, 2012, 1927610@@author-year}	High	
134237-50-6	Zebrafish (*Danio rerio*)	Fresh	44-hour	NOEC = 0.1 mg AI/L; LOEC = 1 mg AI/L	0, 0.01, 0.1, 1.0 mg/L	Renewal, Nominal, Solvent: DMSO	Heart rate	{Du, 2012, 1927610@@author-year}	High	
134237-50-6	Zebrafish (*Danio rerio*)	Fresh	68-hour	NOEC = 0.01 mg AI/L; LOEC = 0.1 mg AI/L	0, 0.01, 0.1, 1.0 mg/L	Renewal, Nominal, Solvent: DMSO	Hatching success	{Du, 2012, 1927610@@author-year}	High	
134237-50-6	Zebrafish (*Danio rerio*)	Fresh	92-hour	NOEC = 0.01 mg AI/L; LOEC = 0.1 mg AI/L	0, 0.01, 0.1, 1.0 mg/L	Renewal, Nominal, Solvent: DMSO	Heart rate	{Du, 2012, 1927610@@author-year}	High	
134237-50-6	Zebrafish (*Danio rerio*)	Fresh	92-hour	NOEC = 0.1 mg AI/L; LOEC = 1 mg AI/L	0, 0.01, 0.1, 1.0 mg/L	Renewal, Nominal, Solvent: DMSO	Growth: Length; Mortality	{Du, 2012, 1927610@@author-year}	High	

CAS RN	Test Species	Water Type	Duration	End-point	Conc(s)	Test Analysis	Effect(s)	References	Data Quality Ratings	HERO ID.
134237-50-6	Zebrafish (*Danio rerio*)	Fresh	116-hour	NOEC = 0.01 mg AI/L; LOEC = 0.1 mg AI/L	0, 0.01, 0.1, 1.0 mg/L	Renewal, Nominal, Solvent: DMSO	Growth: Abnormal. Malformation rate	{Du, 2012, 1927610@@author-year}	High	
134237-50-6	Zebrafish (*Danio rerio*)	Fresh	116-hour	NOEC = 0.1 mg AI/L; LOEC = 1 mg AI/L	0, 0.01, 0.1, 1.0 mg/L	Renewal, Nominal, Solvent: DMSO	Reactive oxygen species; Caspase 3; Caspase 9	{Du, 2012, 1927610@@author-year}	High	
3194-55-6	Zebrafish (*Danio rerio*)	Fresh	92-hour	LOAEL = 0.05 mg AI/L	0, 0.05, 0.1, 0.5, 1.0 mg/L	Aquatic-not reported, Nominal, Solvent: DMSO	Heart rate; bax mRNA; Mortality	{Deng, 2009, 1927716@@author-year}	High	1927716
3194-55-6	Zebrafish (*Danio rerio*)	Fresh	92-hour	NOAEL = 0.05 mg AI/L; LOAEL = 0.1 mg AI/L	0, 0.05, 0.1, 0.5, 1.0 mg/L	Aquatic-not reported, Nominal, Solvent: DMSO	Growth: Length; Reactive oxygen species; Caspase-3 mRNA expression profile; Caspase-9 mRNA expression profile; Growth: Abnormal malformation rate	{Deng, 2009, 1927716@@author-year}	High	
3194-55-6	Zebrafish (*Danio rerio*)	Fresh	92-hour	NOAEL = 0.5 mg AI/L; LOAEL = 1 mg AI/L	0, 0.05, 0.1, 0.5, 1.0 mg/L	Aquatic-not reported, Nominal, Solvent: DMSO	p53 mRNA; E3 ubiquitin-protein ligase; Bcl-2-binding component 3 mRNA; Bcl-2 mRNA; Apoptotic protease-activating factor 1 mRNA; Caspase-3 mRNA induction; Caspase-9 mRNA induction	{Deng, 2009, 1927716@@author-year}	High	
25637-99-4	Zebrafish (*Danio rerio*)	Fresh	96-hour	LOAEL = 0.002 mg AI/L	0, 0.002, 0.01, 0.1, 0.5, 2.5, 10 mg/L	Renewal, Nominal, Solvent: DMSO	Hatch delay	{Hu, 2009, 1927732@@author-year}	High	1927732
25637-99-4	Zebrafish (*Danio rerio*)	Fresh	96-hour	NOAEL = 10 mg AI/L	0, 0.002, 0.01, 0.1, 0.5, 2.5, 10 mg/L	Renewal, Nominal, Solvent: DMSO	Mortality	{Hu, 2009, 1927732@@author-year}	High	

CAS RN	Test Species	Water Type	Duration	End-point	Conc(s)	Test Analysis	Effect(s)	References	Data Quality Ratings	HERO ID.
25637-99-4	Zebrafish (*Danio rerio*)	Fresh	96-hour	NOAEL = 0.1 mg AI/L; LOAEL = 0.5 mg AI/L	0, 0.002, 0.01, 0.1, 0.5, 2.5, 10 mg/L	Renewal, Nominal, Solvent: DMSO	Malondialdehyde	{Hu, 2009, 1927732@@author-year}	High	
25637-99-4	Zebrafish (*Danio rerio*)	Fresh	96-hour	NOAEL = 0.002 mg AI/L; LOAEL = 0.01 mg AI/L	0, 0.002, 0.01, 0.1, 0.5, 2.5, 10 mg/L	Renewal, Nominal, Solvent: DMSO	Heat shock protein 70	{Hu, 2009, 1927732@@author-year}	High	
25637-99-4	Atlantic salmon (*Salmo salar*)	Fresh	5-day	NR-ZERO = 0.000017- 0.0003 mg AI/L	0, 0, 0.000017-0.0003 mg/L	Flow-through, Measured, Solvent: Methanol	Mortality	{Lower, 2008, 3618094@@author-year}	High	3618094
25637-99-4	Atlantic salmon (*Salmo salar*)	Fresh	5-day	NOAEL = 0.00005 mg AI/L; Exp. 1	0, 0.000005, 0.00005 mg/L	Flow-through, Nominal, Solvent: Methanol	Growth: Length; Growth: Weight; Gonadosomatic index	{Lower, 2008, 3618094@@author-year}	High	
25637-99-4	Atlantic salmon (*Salmo salar*)	Fresh	5-day	NOAEL = 0.00005 mg AI/L; Exp. 2	0, 0, 0.000005, 0.00005 mg/L	Flow-through, Nominal, Solvent: Methanol	Growth: Length; Growth: Weight; Gonadosomatic index	{Lower, 2008, 3618094@@author-year}	High	
25637-99-4	Atlantic salmon (*Salmo salar*)	Fresh	5-day	NOAEL = 0.000017-0.0003 mg AI/L	0, 0, 0.000017-0.0003 mg/L	Flow-through, Measured, Solvent: Methanol	Condition index: 5-day freshwater dosing period, 3-day transfer to salt water; Sodium potassium ATPase; 5-day freshwater dosing period, 3-day transfer to salt water; Thyroxine; 5-day freshwater dosing period, 3-day transfer to salt water; Triiodothyronine; 5-day freshwater dosing period, 3-day transfer to salt water	{Lower, 2008, 3618094@@author-year}	High	

CAS RN	Test Species	Water Type	Duration	End-point	Conc(s)	Test Analysis	Effect(s)	References	Data Quality Ratings	HERO ID.
25637-99-4	Atlantic salmon (*Salmo salar*)	Fresh	5-day	NOAEL = 0.00005 mg AI/L	0, 0.000005, 0.00005 mg/L	Flow-through, Nominal, Solvent: Methanol	Trans-epithelial voltage gradient; Accessory reproductive fluid; Testosterone	{Lower, 2008, 3618094@@author-year}	High	
25637-99-4	Atlantic salmon (*Salmo salar*)	Fresh	5-day	LOAEL = 0.000005 mg AI/L	0, 0, 0.000005, 0.00005 mg/L	Flow-through, Nominal, Solvent: Methanol	11-Ketotestosterone; 17,20beta-Dihydroxy-4-pregnen-3-one	{Lower, 2008, 3618094@@author-year}	High	
25637-99-4	Atlantic salmon (*Salmo salar*)	Fresh	30-day	NOEC = 0.000011	0, 0.000011 mg/L	Flow-through, Measured, Solvent: Methanol	Mortality, Growth: length; Condition Factor	{Lower, 2008, 3618094@@author-year}	High	
25637-99-4	Atlantic salmon (*Salmo salar*)	Fresh	30-day	LOEC = 0.000011	0, 0.000011 mg/L	Flow-through, Measured, Solvent: Methanol	Gill Na+/K+ ATPase activity; Plasma T4	{Lower, 2008, 3618094@@author-year}	High	
25637-99-4	Chinese Rare Minnow (*Gobiocypris rarus*)	Fresh	14-day	NOAEL = 0.5 mg AI/L	0, 0.001, 0.01, 0.1, 0.5 mg/L	Renewal, Nominal, Solvent: DMSO	Pentylresorufin O-deethylase; Reactive oxygen species; 7-Ethoxyresorufin O-deethylase; Thiobarbituric acid reactive substances; Protein carbonyls; DNA damage; Superoxide dismutase (SOD) enzyme activity; Glutathione disulfide (oxidized glutathione)	{Zhang, 2008, 1927768@@author-year}	High	
25637-99-4	Chinese Rare Minnow (*Gobiocypris rarus*)	Fresh	28-day	NOAEL = 0.1 mg AI/L; LOAEL = 0.5 mg AI/L	0, 0.001, 0.01, 0.1, 0.5 mg/L	Renewal, Nominal, Solvent: DMSO	Pentylresorufin O-deethylase; 7-Ethoxyresorufin O-deethylase; Superoxide dismutase (SOD) enzyme activity	{Zhang, 2008, 1927768@@author-year}	High	1927768

CAS RN	Test Species	Water Type	Duration	End-point	Conc(s)	Test Analysis	Effect(s)	References	Data Quality Ratings	HERO ID.
25637-99-4	Chinese Rare Minnow (*Gobiocypris rarus*)	Fresh	42-day	NOAEL = 0.01 mg AI/L; LOAEL = 0.1 mg AI/L	0, 0.001, 0.01, 0.1, 0.5 mg/L	Renewal, Measured, Solvent: DMSO	Pentylresorufin O-deethylase; 7-Ethoxyresorufin O-deethylase; Thiobarbituric acid reactive substances	{Zhang, 2008, 1927768@@author-year}	High	
25637-99-4	Chinese Rare Minnow (*Gobiocypris rarus*)	Fresh	28-day	NOAEL = 0.01 mg AI/L; LOAEL = 0.1 mg AI/L	0, 0.001, 0.01, 0.1, 0.5 mg/L	Renewal, Nominal, Solvent: DMSO	Reactive oxygen species; Protein carbonyls; DNA damage; Glutathione disulfide (oxidized glutathione)	{Zhang, 2008, 1927768@@author-year}	High	
25637-99-4	Chinese Rare Minnow (*Gobiocypris rarus*)	Fresh	42-day	NOAEL = 0.001 mg AI/L; LOAEL = 0.01 mg AI/L	0, 0.001, 0.01, 0.1, 0.5 mg/L	Renewal, Nominal, Solvent: DMSO	Reactive oxygen species; Protein carbonyls; DNA damage; Superoxide dismutase (SOD) enzyme activity	{Zhang, 2008, 1927768@@author-year}	High	
25637-99-4	Chinese Rare Minnow (*Gobiocypris rarus*)	Fresh	28-day	NOAEL = 0.5 mg AI/L	0, 0.001, 0.01, 0.1, 0.5 mg/L	Renewal, Nominal, Solvent: DMSO	Thiobarbituric acid reactive substances	{Zhang, 2008, 1927768@@author-year}	High	
25637-99-4	Chinese Rare Minnow (*Gobiocypris rarus*)	Fresh	42-day	LOAEL = 0.001 mg AI/L	0, 0.001, 0.01, 0.1, 0.5 mg/L	Renewal, Nominal, Solvent: DMSO	Glutathione disulfide (oxidized glutathione)	{Zhang, 2008, 1927768@@author-year}	High	
25637-99-4	Chinese Rare Minnow (*Gobiocypris rarus*)	Fresh	42-day	34 mg/kg	0.001mg/L	Renewal, Nominal, Solvent: DMSO	Residue; whole body HBCD concentration, wet weight	{Zhang, 2008, 1927768@@author-year}	High	
25637-99-4	Chinese Rare Minnow (*Gobiocypris rarus*)	Fresh	42-day	654 mg/kg	0.5 mg/L	Renewal, Nominal, Solvent: DMSO	Residue: whole body HBCD concentration, wet weight	{Zhang, 2008, 1927768@@author-year}	High	

CAS RN	Test Species	Water Type	Duration	End-point	Conc(s)	Test Analysis	Effect(s)	References	Data Quality Ratings	HERO ID.
25637-99-4	Atlantic salmon (*Salmo salar*)	Fresh	7-day	NOAEL = 0.000011 mg AI/L	0, 0.000011 mg/L	Flow-through, Measured, Solvent: Methanol	Triiodothyronine; Thyroxine; Sodium potassium ATPase	{Lower, 2007, 1927956@@author-year}	High	1927956
25637-99-4	Atlantic salmon (*Salmo salar*)	Fresh	14-day	NOAEL = 0.000011 mg AI/L	0, 0.000011 mg/L	Flow-through, Measured, Solvent: Methanol	Triiodothyronine; Thyroxine; Sodium potassium ATPase	{Lower, 2007, 1927956@@author-year}	High	
25637-99-4	Atlantic salmon (*Salmo salar*)	Fresh	21-day	NOAEL = 0.000011 mg AI/L	0, 0.000011 mg/L	Flow-through, Measured, Solvent: Methanol	Triiodothyronine; Thyroxine; Sodium potassium ATPase	{Lower, 2007, 1927956@@author-year}	High	
25637-99-4	Atlantic salmon (*Salmo salar*)	Fresh	28-day	NOAEL = 0.000011 mg AI/L	0, 0.000011 mg/L	Flow-through, Measured, Solvent: Methanol	Triiodothyronine; Sodium potassium ATPase	{Lower, 2007, 1927956@@author-year}	High	
25637-99-4	Atlantic salmon (*Salmo salar*)	Fresh	28-day	LOAEL = 0.000011 mg AI/L	0, 0.000011 mg/L	Flow-through, Measured, Solvent: Methanol	Thyroxine;	{Lower, 2007, 1927956@@author-year}	High	
25637-99-4	Atlantic salmon (*Salmo salar*)	Fresh	7-day	LOAEL = 0.000011 mg AI/L	0, 0.000011 mg/L	Flow-through, Measured, Solvent: Methanol	Smell/Sniff	{Lower, 2007, 1927956@@author-year}	High	
25637-99-4	Atlantic salmon (*Salmo salar*)	Fresh	17-day	LOAEL = 0.000011 mg AI/L	0, 0.000011 mg/L	Flow-through, Measured, Solvent: Methanol	Smell/Sniff	{Lower, 2007, 1927956@@author-year}	High	
25637-99-4	Atlantic salmon (*Salmo salar*)	Fresh	29-day	LOAEL = 0.000011 mg AI/L	0, 0.000011 mg/L	Flow-through, Measured, Solvent: Methanol	Smell/Sniff	{Lower, 2007, 1927956@@author-year}	High	
25637-99-4	Atlantic salmon (*Salmo salar*)	Fresh	30-day	NOAEL = 0.000011 mg AI/L	0, 0.000011 mg/L	Flow-through, Measured, Solvent: Methanol	Mortality; Growth: Length; Growth: Weight; Condition index	{Lower, 2007, 1927956@@author-year}	High	
25637-99-4	Rainbow trout (*Oncorhynchus mykiss*)	Fresh	5-day	LOAEL = <500 mg AI/kg bdwt	0, < 500 mg/kg bdwt	Intraperitoneal, Nominal	Cytochrome P1A	{Ronisz, 2004, 1927821@@author-year}	High	1927821

CAS RN	Test Species	Water Type	Duration	End-point	Conc(s)	Test Analysis	Effect(s)	References	Data Quality Ratings	HERO ID.
25637-99-4	Rainbow trout (*Oncorhynchus mykiss*)	Fresh	5-day	NOAEL = <500 mg AI/kg bdwt	0 50, < 500 mg/kg bdwt	Intraperitoneal, Nominal	DNA Adducts; 7-Ethoxyresorufin O-deethylase; Glutathione S-transferase	{Ronisz, 2004, 1927821@@author-year}	High	
25637-99-4	Rainbow trout (*Oncorhynchus mykiss*)	Fresh	5-day	NOAEL = <500 mg AI/kg bdwt; Exp. 1	0, 50, < 500 mg/kg bdwt	Intraperitoneal, Nominal	Liver somatic index; Glutathione reductase	{Ronisz, 2004, 1927821@@author-year}	High	
25637-99-4	Rainbow trout (*Oncorhynchus mykiss*)	Fresh	5-day	NOAEL = <500 mg AI/kg bdwt; Exp. 2	0, < 500 mg/kg bdwt	Intraperitoneal, Nominal	Liver somatic index; Glutathione reductase; Catalase	{Ronisz, 2004, 1927821@@author-year}	High	
25637-99-4	Rainbow trout (*Oncorhynchus mykiss*)	Fresh	28-day	NOAEL = 50 mg AI/kg bdwt; LOAEL = <500 mg AI/kg bdwt	0, 50, < 500 mg/kg bdwt	Intraperitoneal, Nominal	Liver somatic index; 7-Ethoxy-resorufin O-deethylase	{Ronisz, 2004, 1927821@@author-year}	High	
25637-99-4	Rainbow trout (*Oncorhynchus mykiss*)	Fresh	28-day	NOAEL = <500 mg AI/kg bdwt	0, 50, < 500 mg/kg bdwt	Intraperitoneal, Nominal	Glutathione reductase; Catalase; Glutathione S-transferase	{Ronisz, 2004, 1927821@@author-year}	High	
25637-99-4	Rainbow trout (*Oncorhynchus mykiss*)	Fresh	5-day	LOAEL = 50 mg/kg bdwt; Exp. 1	0, 50, < 500 mg/kg bdwt	Intraperitoneal, Nominal	Catalase	{Ronisz, 2004, 1927821@@author-year}	High	
25637-99-4	Indian Medaka (*Oryzias melastigma*)	Salt	5 days post fertilization	LOAEL = 0.005 mg AI/L	0, 0.005, 0.02, 0.05 mg/L	Renewal, Nominal, Solvent: DMSO	Heart rate	{Hong, 2014, 2343684@@author-year}	High	2343684
25637-99-4	Indian Medaka (*Oryzias melastigma*)	Salt	8 days post fertilization	LOAEL = 0.005 mg AI/L	0, 0.005, 0.02, 0.05 mg/L	Renewal, Nominal, Solvent: DMSO	Heart rate; Uncharacterized arginine/ serine-rich coiled-coil 1 mRNA	{Hong, 2014, 2343684@@author-year}	High	
25637-99-4	Indian Medaka (*Oryzias melastigma*)	Salt	5 days post fertilization	NOAEL = 0.02 mg AI/L; LOAEL = 0.05 mg AI/L	0, 0.005, 0.02, 0.05 mg/L	Renewal, Nominal, Solvent: DMSO	Growth: Abnormal; SV-BA distance	{Hong, 2014, 2343684@@author-year}	High	

CAS RN	Test Species	Water Type	Duration	End-point	Conc(s)	Test Analysis	Effect(s)	References	Data Quality Ratings	HERO ID.
25637-99-4	Indian Medaka (*Oryzias melastigma*)	Salt	8 days post fertilization	NOAEL = 0.005 mg AI/L; LOAEL = 0.02 mg AI/L	0, 0.005, 0.02, 0.05 mg/L	Renewal, Nominal, Solvent: DMSO	Growth: Abnormal; SV-BA distance; Coiled coil domain containing 106 protein mRNA; Uncharacterized transmembrane and coiled-coil domain family 3 mRNA	{Hong, 2014, 2343684@@author-year}	High	
25637-99-4	Indian Medaka (*Oryzias melastigma*)	Salt	5 days post fertilization	NOAEL = 0.05 mg AI/L; LOAEL = 0.2 mg AI/L	0, 0.02, 0.05, 0.2 mg/L	Renewal, Nominal, Solvent: DMSO	Caspase 3; Interleukin-1 beta	{Hong, 2014, 2343684@@author-year}	High	
25637-99-4	Indian Medaka (*Oryzias melastigma*)	Salt	8 days post fertilization	NOAEL = 0.05 mg AI/L; LOAEL = 0.2 mg AI/L	0, 0.02, 0.05, 0.2 mg/L	Renewal, Nominal, Solvent: DMSO	Caspase 3; Caspase 8; Caspase 9; p53 mRNA; Interleukin-1 beta	{Hong, 2014, 2343684@@author-year}	High	
25637-99-4	Indian Medaka (*Oryzias melastigma*)	Salt	5 days post fertilization	NOAEL = 0.2 mg AI/L	0, 0.02, 0.05, 0.2 mg/L	Renewal, Nominal, Solvent: DMSO	Caspase 8; Caspase 9	{Hong, 2014, 2343684@@author-year}	High	
25637-99-4	Indian Medaka (*Oryzias melastigma*)	Salt	5 days post fertilization	NOAEL = 0.02 mg AI/L; LOAEL = 0.05 mg AI/L	0, 0.02, 0.05, 0.2 mg/L	Renewal, Nominal, Solvent: DMSO	p53 mRNA; Tumor necrosis factor-alpha	{Hong, 2014, 2343684@@author-year}	High	
25637-99-4	Indian Medaka (*Oryzias melastigma*)	Salt	First fry	NOAEL = 0.05 mg AI/L; LOAEL = 0.2 mg AI/L	0, 0.02, 0.05, 0.2 mg/L	Renewal, Nominal, Solvent: DMSO	p53 mRNA; Interleukin-1 beta; Tumor necrosis factor-alpha	{Hong, 2014, 2343684@@author-year}	High	
25637-99-4	Indian Medaka (*Oryzias melastigma*)	Salt	8 days post fertilization	NOAEL = 0.2 mg AI/L	0, 0.02, 0.05, 0.2 mg/L	Renewal, Nominal, Solvent: DMSO	Tumor necrosis factor-alpha	{Hong, 2014, 2343684@@author-year}	High	
25637-99-4	Indian Medaka (*Oryzias melastigma*)	Salt	6 days post fertilization	NOAEL = 0.005 mg AI/L; LOAEL = 0.02 mg AI/L	0, 0.005, 0.02, 0.05 mg/L	Renewal, Nominal, Solvent: DMSO	8-Oxo-2'-deoxy-guanosine	{Hong, 2014, 2343684@@author-year}	High	

CAS RN	Test Species	Water Type	Duration	End-point	Conc(s)	Test Analysis	Effect(s)	References	Data Quality Ratings	HERO ID.
25637-99-4	Indian Medaka (*Oryzias melastigma*)	Salt	8 days post fertilization	LOAEL = 0.05 mg AI/L	0, 0.005, 0.02, 0.05 mg/L	Renewal, Nominal, Solvent: DMSO	Uncharacterized polycomb protein mRNA; Uncharacterized short-chain de-hydrogenase/reductase family mRNA; 40S ribosomal protein SA mRNA; Brain-type fatty acid binding protein mRNA	{Hong, 2014, 2343684@@author-year}	High	
25637-99-4	Indian Medaka (*Oryzias melastigma*)	Salt	8 days post fertilization	NOAEL = 0.02 mg AI/L; LOAEL = 0.05 mg AI/L	0, 0.005, 0.02, 0.05 mg/L	Renewal, Nominal, Solvent: DMSO	Ribose-phosphate pyrophosphate kinase mRNA; Uncharacterized bromodomain and WD repeat domain containing 3 mRNA; Uncharacterized parvalbumin beta-like mRNA; Ubiquitin-conjugating protein (E2)-like mRNA	{Hong, 2014, 2343684@@author-year}	High	
25637-99-4	Indian Medaka (*Oryzias melastigma*)	Salt	8 days post fertilization	NOAEL = 0.005 mg AI/L; LOAEL = 0.02 mg AI/L	0, 0.005, 0.02, 0.05 mg/L	Renewal, Nominal, Solvent: DMSO	Uncharacterized myosin regulatory light chain mRNA	{Hong, 2014, 2343684@@author-year}	High	
25637-99-4	Indian Medaka (*Oryzias melastigma*)	Salt	8 days post fertilization	LOAEL = 0.005 mg AI/L	0, 0.005, 0.02, 0.05 mg/L	Renewal, Nominal, Solvent: DMSO	Choriogenin L mRNA	{Hong, 2014, 2343684@@author-year}	High	
25637-99-4	Indian Medaka (*Oryzias melastigma*)	Salt	8 days post fertilization	LOAEL = 0.02 mg AI/L	0, 0.005, 0.02, 0.05 mg/L	Renewal, Nominal, Solvent: DMSO	Vitellogenin 2 mRNA	{Hong, 2014, 2343684@@author-year}	High	
25637-99-4	Indian Medaka (*Oryzias melastigma*)	Salt	8 days post fertilization	NOAEL = 0.05 mg AI/L	0, 0.005, 0.02, 0.05 mg/L	Renewal, Nominal, Solvent: DMSO	Vitellogenin-like protein	{Hong, 2014, 2343684@@author-year}	High	

CAS RN	Test Species	Water Type	Duration	End-point	Conc(s)	Test Analysis	Effect(s)	References	Data Quality Ratings	HERO ID.
25637-99-4	Indian Medaka (*Oryzias melastigma*)	Salt	17 days post fertilization	NOAEL = 0.02 mg AI/L; LOAEL = 0.05 mg AI/L	0, 0.005, 0.02, 0.05 mg/L	Renewal, Nominal, Solvent: DMSO	Growth: Abnormal; malformations	{Hong, 2014, 2343684@@author-year}	High	
25637-99-4	Indian Medaka (*Oryzias melastigma*)	Salt	17 days post fertilization	NOAEL = 0.05 mg AI/L	0, 0.005, 0.02, 0.05 mg/L	Renewal, Nominal, Solvent: DMSO	Mortality; Hatching success; Hatchout time	{Hong, 2014, 2343684@@author-year}	High	
134237-52-8	Indian Medaka (*Oryzias melastigma*)	Salt	5-day post fertilization	NOAEL = 0.0084-0.0163 mg AI/L; LOAEL = 0.0165-0.0324 mg AI/L	0, 0.0084-0.0163, 0.0165-0.0324, 0.1212-0.1568 mg/L	Renewal, Measured, Solvent: DMSO	Heart rate	{Hong, 2015, 3350507@@author-year}	High	
134237-52-8	Indian Medaka (*Oryzias melastigma*)	Salt	8-day post fertilization	LOAEL = 0.0084-0.0163 mg AI/L	0, 0.0084-0.0163, 0.0165-0.0324, 0.1212-0.1568 mg/L	Renewal, Measured, Solvent: DMSO	Heart rate	{Hong, 2015, 3350507@@author-year}	High	3350507
134237-52-8	Indian Medaka (*Oryzias melastigma*)	Salt	8-day post fertilization	NOAEL = 0.0165-0.0324mg AI/L; LOAEL = 0.1212-0.1568 mg AI/L	0, 0.0084-0.0163, 0.0165-0.0324, 0.1212-0.1568 mg/L	Renewal, Measured, Solvent: DMSO	Growth, abnormal. SV-BA distance; Interleukin 1 beta mRNA; Tumor necrosis factor mRNA	{Hong, 2015, 3350507@@author-year}	High	
134237-52-8	Indian Medaka (*Oryzias melastigma*)	Salt	8-day post fertilization	LOAEL = 0.0084-0.0163 mg AI/L	0, 0.0084-0.0163, 0.1212-0.1568 mg/L	Renewal, Measured, Solvent: DMSO	Caspase 3	{Hong, 2015, 3350507@@author-year}	High	
134237-52-8	Indian Medaka (*Oryzias melastigma*)	Salt	8-day post fertilization	NOAEL = 0.0084-0.0163 mg AI/L; LOAEL = 0.1212-0.1568 mg AI/L	0, 0.0084-0.0163, 0.1212-0.1568 mg/L	Renewal, Measured, Solvent: DMSO	Caspase 8; Caspase 9	{Hong, 2015, 3350507@@author-year}	High	
134237-52-8	Indian Medaka (*Oryzias melastigma*)	Salt	8-day post fertilization	NOAEL = 0.0084-0.0163 mg AI/L; LOAEL = 0.0165-0.0324 mg AI/L	0, 0.0084-0.0163, 0.0165-0.0324, 0.1212-0.1568 mg/L	Renewal, Measured, Solvent: DMSO	p53 mRNA	{Hong, 2015, 3350507@@author-year}	High	
134237-52-8	Indian Medaka (*Oryzias melastigma*)	Salt	>8-<17-day post fertilization	NOAEL = 0.0017-0.0324 mg AI/L; LOAEL = 0.1212-0.1568 mg AI/L	0, 0.0084-0.0163, 0.0165-0.0324, 0.1212-0.1568 mg/L	Renewal, Measured, Solvent: DMSO	p53 mRNA, newly hatched larvae; Interleukin 1 beta mRNA, newly hatched larvae; Tumor necrosis factor mRNA; newly hatched larvae	{Hong, 2015, 3350507@@author-year}	High	

CAS RN	Test Species	Water Type	Duration	End-point	Conc(s)	Test Analysis	Effect(s)	References	Data Quality Ratings	HERO ID.
134237-52-8	Indian Medaka (*Oryzias melastigma*)	Salt	6-day post fertilization	NOAEL = 0.0017-0.0324 mg AI/L; LOAEL = 0.1212-0.1568 mg AI/L	0, 0.0084-0.0163, 0.0165-0.0324, 0.1212-0.1568 mg/L	Renewal, Measured, Solvent: DMSO	8-Oxo-2'-deoxyguanosine	{Hong, 2015, 3350507@@author-year}	High	
134237-52-8	Indian Medaka (*Oryzias melastigma*)	Salt	17-day post fertilization	NOAEL = 0.0017-0.0324 mg AI/L; LOAEL =0.1212-0.1568 mg AI/L	0, 0.0084-0.0163, 0.0165-0.0324, 0.1212-0.1568 mg/L	Renewal, Measured, Solvent: DMSO	Growth: Abnormal; Malformation rate	{Hong, 2015, 3350507@@author-year}	High	
134237-52-8	Indian Medaka (*Oryzias melastigma*)	Salt	17-day post fertilization	NOAEL =0.1212-0.1568 mg AI/L	0, 0.0084-0.0163, 0.0165-0.0324, 0.1212-0.1568 mg/L	Renewal, Measured, Solvent: DMSO	Mortality; Hatching rate	{Hong, 2015, 3350507@@author-year}	High	
134237-51-7	Indian Medaka (*Oryzias melastigma*)	Salt	5-day post fertilization	LOAEL = 0.1326-0.1845 mg AI/L	0, 0.0082-0.0145, 0.0205-0.0341, 0.1326-0.1845 mg/L	Renewal, Measured, Solvent: DMSO	Heart rate	{Hong, 2015, 3350507@@author-year}	High	
134237-51-7	Indian Medaka (*Oryzias melastigma*)	Salt	8-day post fertilization	LOAEL = 0.0082-0.0145 mg AI/L	0, 0.0082-0.0145, 0.0205-0.0341, 0.1326-0.1845 mg/L	Renewal, Measured, Solvent: DMSO	Heart rate	{Hong, 2015, 3350507@@author-year}	High	
134237-51-7	Indian Medaka (*Oryzias melastigma*)	Salt	8-day post fertilization	NOAEL = 0.021-0.0341 mg AI/L; LOAEL = 0.1326-0.1845 mg AI/L	0, 0.0082-0.0145, 0.0205-0.0341, 0.1326-0.1845 mg/L	Renewal, Measured, Solvent: DMSO	Growth, abnormal. SV-BA distance; p53 mRNA; Tumor necrosis factor mRNA	{Hong, 2015, 3350507@@author-year}	High	
134237-51-7	Indian Medaka (*Oryzias melastigma*)	Salt	8-day post fertilization	LOAEL = 0.0082-0.0145 mg AI/L	0, 0.0082-0.0145, 0.1326-0.1845 mg/L	Renewal, Measured, Solvent: DMSO	Caspase 3; Caspase 9	{Hong, 2015, 3350507@@author-year}	High	
134237-51-7	Indian Medaka (*Oryzias melastigma*)	Salt	8-day post fertilization	NOAEL = 0.0082-0.0145 mg AI/L; LOAEL = 0.1326-0.1845 mg AI/L	0, 0.0082-0.0145, 0.1326-0.1845 mg/L	Renewal, Measured, Solvent: DMSO	Caspase 8	{Hong, 2015, 3350507@@author-year}	High	
134237-51-7	Indian Medaka (*Oryzias melastigma*)	Salt	>8-<17-day post fertilization	NOAEL = 0.021-0.0341 mg AI/L; LOAEL = 0.1326-0.1845 mg AI/L	0, 0.0082-0.0145, 0.0205-0.0341, 0.1326-0.1845 mg/L	Renewal, Measured, Solvent: DMSO	p53 mRNA, newly hatched larvae; Tumor necrosis factor mRNA, newly hatched larvae	{Hong, 2015, 3350507@@author-year}	High	
134237-51-7	Indian Medaka (*Oryzias melastigma*)	Salt	8-day post fertilization	NOAEL = 0.0082-0.0145 mg AI/L; LOAEL = 0.0205-0.0341 mg AI/L	0, 0.0082-0.0145, 0.0205-0.0341, 0.1326-0.1845 mg/L	Renewal, Measured, Solvent: DMSO	Interleukin 1 beta mRNA	{Hong, 2015, 3350507@@author-year}	High	

CAS RN	Test Species	Water Type	Duration	End-point	Conc(s)	Test Analysis	Effect(s)	References	Data Quality Ratings	HERO ID.
134237-51-7	Indian Medaka (*Oryzias melastigma*)	Salt	>8-<17-day post fertilization	NOAEL = 0.1326-0.1845 mg AI/L	0, 0.0082-0.0145, 0.0205-0.0341, 0.1326-0.1845 mg/L	Renewal, Measured, Solvent: DMSO	Interleukin 1 beta mRNA, newly hatched larvae	{Hong, 2015, 3350507@@author-year}	High	
134237-51-7	Indian Medaka (*Oryzias melastigma*)	Salt	6-day post fertilization	NOAEL = 0.021-0.0341 mg AI/L; LOAEL = 0.1326-0.1845 mg AI/L	0, 0.0082-0.0145, 0.0205-0.0341, 0.1326-0.1845 mg/L	Renewal, Measured, Solvent: DMSO	8-Oxo-2'-deoxy-guanosine	{Hong, 2015, 3350507@@author-year}	High	
134237-51-7	Indian Medaka (*Oryzias melastigma*)	Salt	17-day post fertilization	NOAEL = 0.1326-0.1845 mg AI/L	0, 0.0082-0.0145, 0.0205-0.0341, 0.1326-0.1845 mg/L	Renewal, Measured, Solvent: DMSO	Growth: Abnormal, Malformation rate; Mortality; Hatching rate	{Hong, 2015, 3350507@@author-year}	High	
134237-50-6	Indian Medaka (*Oryzias melastigma*)	Salt	5-day post fertilization	LOAEL = 0.0097-0.0141 mg AI/L	0, 0.0097-0.0141, 0.0237-0.0375, 0.1252-0.1684 mg/L	Renewal, Measured, Solvent: DMSO	Heart rate	{Hong, 2015, 3350507@@author-year}	High	
134237-50-6	Indian Medaka (*Oryzias melastigma*)	Salt	8-day post fertilization	LOAEL = 0.0097-0.0141 mg AI/L	0, 0.0097-0.0141, 0.0237-0.0375, 0.1252-0.1684 mg/L	Renewal, Measured, Solvent: DMSO	Heart rate	{Hong, 2015, 3350507@@author-year}	High	
134237-50-6	Indian Medaka (*Oryzias melastigma*)	Salt	8-day post fertilization	NOAEL = 0.024-0.0375 mg AI/L LOAEL = 0.1252-0.1684 mg AI/L	0, 0.0097-0.0141, 0.0237-0.0375, 0.1252-0.1684 mg/L	Renewal, Measured, Solvent: DMSO	Growth, Abnormal; SV-BA length; Tumor necrosis factor mRNA	{Hong, 2015, 3350507@@author-year}	High	
134237-50-6	Indian Medaka (*Oryzias melastigma*)	Salt	8-day post fertilization	LOAEL = 0.0097-0.0141 mg AI/L	0, 0.0097-0.0141, 0.1252-0.1684 mg/L	Renewal, Measured, Solvent: DMSO	Caspase 3	{Hong, 2015, 3350507@@author-year}	High	
134237-50-6	Indian Medaka (*Oryzias melastigma*)	Salt	8-day post fertilization	NOAEL = 0.0097-0.0141 mg AI/l; LOAEL = 0.1252-0.1684 mg AI/L	0, 0.0097-0.0141, 0.1252-0.1684 mg/L	Renewal, Measured, Solvent: DMSO	Caspase 8; Caspase 9	{Hong, 2015, 3350507@@author-year}	High	
134237-50-6	Indian Medaka (*Oryzias melastigma*)	Salt	8-day post fertilization	NOAEL = 0.0097-0.0141 mg AI/L; LOAEL = 0.0237-0.0375 mg/AI/L	0, 0.0097-0.0141, 0.0237-0.0375, 0.1252-0.1684 mg/L	Renewal, Measured, Solvent: DMSO	p53 mRNA; Interleukin 1 beta mRNA	{Hong, 2015, 3350507@@author-year}	High	

CAS RN	Test Species	Water Type	Duration	End-point	Conc(s)	Test Analysis	Effect(s)	References	Data Quality Ratings	HERO ID.
134237-50-6	Indian Medaka (*Oryzias melastigma*)	Salt	>8-<17-day post fertilization	NOAEL = 0.024-0.0375 mg AI/L; LOAEL = 0.1252-0.1684 mg AI/L	0, 0.0097-0.0141, 0.0237-0.0375, 0.1252-0.1684 mg/L	Renewal, Measured, Solvent: DMSO	p53 mRNA, newly hatched larvae; Interleukin 1 beta mRNA, newly hatched larvae; Tumor necrosis factor mRNA, newly hatched larvae	{Hong, 2015, 3350507@@author-year}	High	
134237-50-6	Indian Medaka (*Oryzias melastigma*)	Salt	6-day post fertilization	NOAEL = 0.024-0.0375 mg AI/L; LOAEL = 0.1252-0.1684 mg AI/L	0, 0.0097-0.0141, 0.0237-0.0375, 0.1252-0.1684 mg/L	Renewal, Measured, Solvent: DMSO	8-Oxo-2'-deoxyguanosine	{Hong, 2015, 3350507@@author-year}	High	
134237-50-6	Indian Medaka (*Oryzias melastigma*)	Salt	17-day post fertilization	NOAEL = 0.024-0.0375 mg AI/L; LOAEL = 0.1252-0.1684 mg AI/L	0, 0.0097-0.0141, 0.0237-0.0375, 0.1252-0.1684 mg/L	Renewal, Measured, Solvent: DMSO	Growth: Abnormal. Malformation rate	{Hong, 2015, 3350507@@author-year}	High	
134237-50-6	Indian Medaka (*Oryzias melastigma*)	Salt	17-day post fertilization	NOAEL = 0.1252-0.1684 mg AI/L	0, 0.0097-0.0141, 0.0237-0.0375, 0.1252-0.1684 mg/L	Renewal, Measured, Solvent: DMSO	Mortality; Hatch rate	{Hong, 2015, 3350507@@author-year}	High	
134237-52-8	Zebrafish (*Danio rerio*)	Fresh	7-day	NOAEL = 0.01 mg AI/L; LOAEL = 0.1 mg AI/L	0, 0.001, 0.01, 0.1 mg/L	Renewal, Nominal, Solvent: DMSO	Cyp1b1 mRNA; 7-Ethoxyresorufin O-deethylase; Cytochrome P1A messenger RNA; Aryl hydrocarbon receptor 1b mRNA	{Du, 2015, 3350537@@author-year}	High	
134237-52-8	Zebrafish (*Danio rerio*)	Fresh	21-day	LOAEL = 0.001 mg AI/L	0, 0.001, 0.01, 0.1 mg/L	Renewal, Nominal, Solvent: DMSO	Cyp1b1 mRNA	{Du, 2015, 3350537@@author-year}	High	3350537
134237-52-8	Zebrafish (*Danio rerio*)	Fresh	7-day	NOAEL = 0.001 mg AI/L; LOAEL = 0.01 mg AI/L	0, 0.001, 0.01, 0.1 mg/L	Renewal, Nominal, Solvent: DMSO	Cytochrome P450, family 1, subfamily C, polypeptide 1 mRNA; Aryl hydrocarbon receptor 1a mRNA; Aryl hydrocarbon receptor 2 mRNA	{Du, 2015, 3350537@@author-year}	High	

CAS RN	Test Species	Water Type	Duration	End-point	Conc(s)	Test Analysis	Effect(s)	References	Data Quality Ratings	HERO ID.
134237-52-8	Zebrafish (*Danio rerio*)	Fresh	21-day	NOAEL = 0.001 mg AI/L; LOAEL = 0.01 mg AI/L	0, 0.001, 0.01, 0.1 mg/L	Renewal, Nominal, Solvent: DMSO	Cytochrome P450, family 1, subfamily C, polypeptide 1 mRNA; 7-Ethoxyresorufin O-deethylase; Cytochrome P1A messenger RNA; Aryl hydrocarbon receptor 1a mRNA; Aryl hydrocarbon receptor 1b mRNA; Aryl hydrocarbon receptor 2 mRNA	{Du, 2015, 3350537@@author-year}	High	
134237-52-8	Zebrafish (*Danio rerio*)	Fresh	21-day	NOAEL = 0.1 mg AI/L	0, 0.001, 0.01, 0.1 mg/L	Renewal, Nominal, Solvent: DMSO	Liver somatic index; Mortality	{Du, 2015, 3350537@@author-year}	High	
134237-51-7	Zebrafish (*Danio rerio*)	Fresh	7-day	NOAEL = 0.001 mg AI/L; LOAEL = 0.01 mg AI/L	0, 0.001, 0.01, 0.1 mg/L	Renewal, Nominal, Solvent: DMSO	Cyp1b1 mRNA; Cytochrome P450, family 1, subfamily C, polypeptide 1 mRNA; Aryl hydrocarbon receptor 1a mRNA; Aryl hydrocarbon receptor 2 mRNA	{Du, 2015, 3350537@@author-year}	High	
134237-51-7	Zebrafish (*Danio rerio*)	Fresh	21-day	NOAEL = 0.001 mg AI/L; LOAEL = 0.01 mg AI/L	0, 0.001, 0.01, 0.1 mg/L	Renewal, Nominal, Solvent: DMSO	Cyp1b1 mRNA; Cytochrome P450, family 1, subfamily C, polypeptide 1 mRNA; Cytochrome P1A messenger RNA; Aryl hydrocarbon receptor 1b mRNA	{Du, 2015, 3350537@@author-year}	High	

CAS RN	Test Species	Water Type	Duration	End-point	Conc(s)	Test Analysis	Effect(s)	References	Data Quality Ratings	HERO ID.
134237-51-7	Zebrafish (*Danio rerio*)	Fresh	7-day	NOAEL = 0.01 mg AI/L; LOAEL = 0.1 mg AI/L	0, 0.001, 0.01, 0.1 mg/L	Renewal, Nominal, Solvent: DMSO	7-Ethoxyresorufin O-deethylase; Cytochrome P1A messenger RNA; Aryl hydrocarbon receptor 1b mRNA	{Du, 2015, 3350537@@author-year}	High	
134237-51-7	Zebrafish (*Danio rerio*)	Fresh	21-day	NOAEL = 0.01 mg AI/L; LOAEL = 0.1 mg AI/L	0, 0.001, 0.01, 0.1 mg/L	Renewal, Nominal, Solvent: DMSO	7-Ethoxyresorufin O-deethylase; Aryl hydrocarbon receptor 2 mRNA	{Du, 2015, 3350537@@author-year}	High	
134237-51-7	Zebrafish (*Danio rerio*)	Fresh	21-day	NOAEL = 0.1 mg AI/L	0, 0.001, 0.01, 0.1 mg/L	Renewal, Nominal, Solvent: DMSO	Aryl hydrocarbon receptor 1a mRNA; Liver somatic index; Mortality	{Du, 2015, 3350537@@author-year}	High	
134237-50-6	Zebrafish (*Danio rerio*)	Fresh	7-day	NOAEL = 0.001 mg AI/L; LOAEL = 0.01 mg AI/L	0, 0.001, 0.01, 0.1 mg/L	Renewal, Nominal, Solvent: DMSO	Cyp1b1 mRNA; Cytochrome P450, family 1, subfamily C, polypeptide 1 mRNA; Aryl hydrocarbon receptor 1a mRNA; Aryl hydrocarbon receptor 1b mRNA	{Du, 2015, 3350537@@author-year}	High	
134237-50-6	Zebrafish (*Danio rerio*)	Fresh	21-day	NOAEL = 0.001 mg AI/L; LOAEL = 0.01 mg AI/L	0, 0.001, 0.01, 0.1 mg/L	Renewal, Nominal, Solvent: DMSO	Cyp1b1 mRNA; Cytochrome P450, family 1, subfamily C, polypeptide 1 mRNA; Aryl hydrocarbon receptor 1a mRNA; Aryl hydrocarbon receptor 1b mRNA; Aryl hydrocarbon receptor 2 mRNA	{Du, 2015, 3350537@@author-year}	High	

CAS RN	Test Species	Water Type	Duration	End-point	Conc(s)	Test Analysis	Effect(s)	References	Data Quality Ratings	HERO ID.
134237-50-6	Zebrafish (*Danio rerio*)	Fresh	7-day	NOAEL = 0.1 mg AI/L	0, 0.001, 0.01, 0.1 mg/L	Renewal, Nominal, Solvent: DMSO	7-Ethoxyresorufin O-deethylase; Aryl hydrocarbon receptor 2 mRNA	{Du, 2015, 3350537@@author-year}	High	
134237-50-6	Zebrafish (*Danio rerio*)	Fresh	21-day	NOAEL = 0.01 mg AI/L; LOAEL = 0.1 mg AI/L	0, 0.001, 0.01, 0.1 mg/L	Renewal, Nominal, Solvent: DMSO	7-Ethoxyresorufin O-deethylase; Cytochrome P1A messenger RNA	{Du, 2015, 3350537@@author-year}	High	
134237-50-6	Zebrafish (*Danio rerio*)	Fresh	7-day	NOAEL = 0.01 mg AI/L; LOAEL = 0.1 mg AI/L	0, 0.001, 0.01, 0.1 mg/L	Renewal, Nominal, Solvent: DMSO	Cytochrome P1A messenger RNA	{Du, 2015, 3350537@@author-year}	High	
134237-50-6	Zebrafish (*Danio rerio*)	Fresh	21-day	NOAEL = 0.1 mg AI/L	0, 0.001, 0.01, 0.1 mg/L	Renewal, Nominal, Solvent: DMSO	Liver somatic index; Mortality	{Du, 2015, 3350537@@author-year}	High	
134237-52-8	Zebrafish (*Danio rerio*)	Fresh	7-day	NOAEL = 0.02284 mg AI/kg	0.00084, 0.02284 mg/kg	Food, Measured; lipid-corrected	Triiodothyronine; Thyroxine; Thyroid gland epithelial cell height; Liver somatic index	{Palace, 2010, 1403364@@author-year}	High	1403364
134237-52-8	Zebrafish (*Danio rerio*)	Fresh	14-day	NOAEL = 0.02284 mg AI/kg	0.00084, 0.02284 mg/kg	Food, Measured; lipid-corrected	Triiodothyronine; Thyroxine; 7-Ethoxyresorufin O-deethylase; T4 outer ring deiodinase enzyme activity; Thyroid gland epithelial cell height; Liver somatic index	{Palace, 2010, 1403364@@author-year}	High	
134237-52-8	Zebrafish (*Danio rerio*)	Fresh	56-day	LOAEL = 0.02284 mg AI/kg	0.00084, 0.02284 mg/kg	Food, Measured; lipid-corrected	Triiodothyronine; Thyroxine; T4 outer ring deiodinase enzyme activity; Thyroid gland epithelial cell height	{Palace, 2010, 1403364@@author-year}	High	

CAS RN	Test Species	Water Type	Duration	End-point	Conc(s)	Test Analysis	Effect(s)	References	Data Quality Ratings	HERO ID.
134237-52-8	Zebrafish (*Danio rerio*)	Fresh	7-day	LOAEL = 0.02284 mg AI/kg	0.00084, 0.02284 mg/kg	Food, Measured; lipid-corrected	7-Ethoxyresorufin O-deethylase	{Palace, 2010, 1403364@@author-year}	High	
134237-52-8	Zebrafish (*Danio rerio*)	Fresh	56-day	NOAEL = 0.02284 mg AI/kg	0.00084, 0.02284 mg/kg	Food, Measured; lipid-corrected	7-Ethoxyresorufin O-deethylase; Liver somatic index; Uridine diphosphate glucuronyl transferase, UDP glucuronyl transferase	{Palace, 2010, 1403364@@author-year}	High	
134237-52-8	Zebrafish (*Danio rerio*)	Fresh	168-day*(112-day depuration period after 56-day exposure)	NOAEL = 0.02284 mg AI/kg	0.00084, 0.02284 mg/kg	Food, Measured; lipid-corrected	Growth: Weight	{Palace, 2010, 1403364@@author-year}	High	
134237-51-7	Zebrafish (*Danio rerio*)	Fresh	7-day	NOAEL = 0.01184 mg AI/kg	0, 0.01184 mg/kg	Food, Measured; lipid-corrected	Triiodothyronine; Thyroxine; Thyroid gland epithelial cell height; Liver somatic index	{Palace, 2010, 1403364@@author-year}	High	
134237-51-7	Zebrafish (*Danio rerio*)	Fresh	14-day	NOAEL = 0.01184 mg AI/kg	0, 0.01184 mg/kg	Food, Measured; lipid-corrected	Triiodothyronine; Thyroxine; 7-Ethoxyresorufin O-deethylase; T4 outer ring deiodinase enzyme activity; Thyroid gland epithelial cell height; Liver somatic index	{Palace, 2010, 1403364@@author-year}	High	
134237-51-7	Zebrafish (*Danio rerio*)	Fresh	56-day	NOAEL = 0.01184 mg AI/kg	0, 0.01184 mg/kg	Food, Measured; lipid-corrected	Triiodothyronine; Thyroid gland epithelial cell height; Liver somatic index	{Palace, 2010, 1403364@@author-year}	High	

CAS RN	Test Species	Water Type	Duration	End-point	Conc(s)	Test Analysis	Effect(s)	References	Data Quality Ratings	HERO ID.
134237-51-7	Zebrafish (*Danio rerio*)	Fresh	56-day	LOAEL = 0.01184 mg AI/kg	0, 0.01184 mg/kg	Food, Measured; lipid-corrected	Thyroxine; 7-Ethoxyresorufin O-deethylase; T4 outer ring deiodinase enzyme activity; Uridine diphosphate glucuronyl transferase, UDP glucuronyl transferase	{Palace, 2010, 1403364@@author-year}	High	
134237-51-7	Zebrafish (*Danio rerio*)	Fresh	7-day	LOAEL = 0.01184 mg AI/kg	0, 0.01184 mg/kg	Food, Measured; lipid-corrected	7-Ethoxyresorufin O-deethylase	{Palace, 2010, 1403364@@author-year}	High	
134237-51-7	Zebrafish (*Danio rerio*)	Fresh	168-day* (112-day depuration period after 56-day exposure)	NOAEL = 0.01184 mg AI/kg	0, 0.01184 mg/kg	Food, Measured; lipid-corrected	Growth: Weight rate	{Palace, 2010, 1403364@@author-year}	High	
134237-50-6	Zebrafish (*Danio rerio*)	Fresh	7-day	NOAEL = 0.02914 mg AI/kg	0.00047, 0.02914 mg/kg	Food, Measured; lipid-corrected	Triiodothyronine; Thyroxine; Thyroid gland epithelial cell height; Liver somatic index	{Palace, 2010, 1403364@@author-year}	High	
134237-50-6	Zebrafish (*Danio rerio*)	Fresh	14-day	NOAEL = 0.02914 mg AI/kg	0.00047, 0.02914 mg/kg	Food, Measured; lipid-corrected	Triiodothyronine; Thyroxine; 7-Ethoxyresorufin O-deethylase; T4 outer ring deiodinase enzyme activity; Thyroid gland epithelial cell height; Liver somatic index	{Palace, 2010, 1403364@@author-year}	High	

CAS RN	Test Species	Water Type	Duration	End-point	Conc(s)	Test Analysis	Effect(s)	References	Data Quality Ratings	HERO ID.
134237-50-6	Zebrafish (*Danio rerio*)	Fresh	56-day	NOAEL = 0.02914 mg AI/kg	0.00047, 0.02914 mg/kg	Food, Measured; lipid-corrected	Triiodothyronine; Thyroid gland epithelial cell height; Liver somatic index	{Palace, 2010, 1403364@@author-year}	High	
134237-50-6	Zebrafish (*Danio rerio*)	Fresh	56-day	LOAEL = 0.02914 mg AI/kg	0.00047, 0.02914 mg/kg	Food, Measured; lipid-corrected	Thyroxine; 7-Ethoxyresorufin O-deethylase; T4 outer ring deiodinase enzyme activity; Uridine diphosphate glucuronyl transferase, UDP glucuronyl transferase	{Palace, 2010, 1403364@@author-year}	High	
134237-50-6	Zebrafish (*Danio rerio*)	Fresh	7-day	LOAEL = 0.02914 mg AI/kg	0.00047, 0.02914 mg/kg	Food, Measured; lipid-corrected	7-Ethoxyresorufin O-deethylase	{Palace, 2010, 1403364@@author-year}	High	
134237-50-6	Zebrafish (*Danio rerio*)	Fresh	168-day* (112-day depuration period after 56-day exposure)	NOAEL = 0.02914 mg AI/kg	0.00047, 0.02914 mg/kg	Food, Measured; lipid-corrected	Growth: Weight	{Palace, 2010, 1403364@@author-year}	High	
25637-99-4	Rainbow trout (*Oncorhynchus mykiss*)	Fresh	35-day	Steady-State BCF (edible tissue) = 6,531	0.00018 mg/L	Flow-through, Measured, Solvent: Acetone	Residue; Bioconcentration	{Wildlife Intl LTD, 2000, 1928244@@author-year}	High	1928244
25637-99-4	Rainbow trout (*Oncorhynchus mykiss*)	Fresh	35-day	Steady-State BCF (edible tissue) = 4,650	0.0018 mg/L	Flow-through, Measured, Solvent: Acetone	Residue; Bioconcentration	{Wildlife Intl LTD, 2000, 1928244@@author-year}	High	
25637-99-4	Rainbow trout (*Oncorhynchus mykiss*)	Fresh	35-day	Steady-State BCF (non-edible tissue) = 20,726	0.00018 mg/L	Flow-through, Measured, Solvent: Acetone	Residue; Bioconcentration	{Wildlife Intl LTD, 2000, 1928244@@author-year}	High	
25637-99-4	Rainbow trout (*Oncorhynchus mykiss*)	Fresh	35-day	Steady-State BCF (non-edible tissue) = 12,866	0.0018 mg/L	Flow-through, Measured, Solvent: Acetone	Residue; Bioconcentration	{Wildlife Intl LTD, 2000, 1928244@@author-year}	High	

CAS RN	Test Species	Water Type	Duration	End-point	Conc(s)	Test Analysis	Effect(s)	References	Data Quality Ratings	HERO ID.
25637-99-4	Rainbow trout (*Oncorhynchus mykiss*)	Fresh	35-day	Steady-State BCF (whole body) = 13,085	0.00018 mg/L	Flow-through, Measured, Solvent: Acetone	Residue; Bioconcentration	{Wildlife Intl LTD, 2000, 1928244@@author-year}	High	
25637-99-4	Rainbow trout (*Oncorhynchus mykiss*)	Fresh	35-day	Steady-State BCF (whole body) = 8,974	0.0018 mg/L	Flow-through, Measured, Solvent: Acetone	Residue; Bioconcentration	{Wildlife Intl LTD, 2000, 1928244@@author-year}	High	
25637-99-4	Rainbow trout (*Oncorhynchus mykiss*)	Fresh	35-day	Kinetic BCF (edible tissue) = 14,039	0.00018 mg/L	Flow-through, Measured, Solvent: Acetone	Residue; Bioconcentration	{Wildlife Intl LTD, 2000, 1928244@@author-year}	High	
25637-99-4	Rainbow trout (*Oncorhynchus mykiss*)	Fresh	35-day	Kinetic BCF (edible tissue) = 9,826	0.0018 mg/L	Flow-through, Measured, Solvent: Acetone	Residue; Bioconcentration	{Wildlife Intl LTD, 2000, 1928244@@author-year}	High	
25637-99-4	Rainbow trout (*Oncorhynchus mykiss*)	Fresh	35-day	Kinetic BCF (non-edible tissue) = 30,242	0.00018 mg/L	Flow-through, Measured, Solvent: Acetone	Residue; Bioconcentration	{Wildlife Intl LTD, 2000, 1928244@@author-year}	High	
25637-99-4	Rainbow trout (*Oncorhynchus mykiss*)	Fresh	35-day	Kinetic BCF (non-edible tissue) = 23,303	0.0018 mg/L	Flow-through, Measured, Solvent: Acetone	Residue; Bioconcentration	{Wildlife Intl LTD, 2000, 1928244@@author-year}	High	
25637-99-4	Rainbow trout (*Oncorhynchus mykiss*)	Fresh	35-day	Kinetic BCF (whole body) = 21,940	0.00018 mg/L	Flow-through, Measured, Solvent: Acetone	Residue; Bioconcentration	{Wildlife Intl LTD, 2000, 1928244@@author-year}	High	
25637-99-4	Rainbow trout (*Oncorhynchus mykiss*)	Fresh	35-day	Kinetic BCF (whole body) = 16,450	0.0018 mg/L	Flow-through, Measured, Solvent: Acetone	Residue; Bioconcentration	{Wildlife Intl LTD, 2000, 1928244@@author-year}	High	
134237-52-8	Rainbow trout (*Oncorhynchus mykiss*)	Fresh	≥ 32-day	NOAEL = 0.005 mg AI/kg	0, 0.005 mg/kg	Food, Nominal; Solvent: Corn oil	Mortality; Weight; Length; Condition	{Palace, 2008, 1409610@@author-year}	High	1409610

CAS RN	Test Species	Water Type	Duration	End-point	Conc(s)	Test Analysis	Effect(s)	References	Data Quality Ratings	HERO ID.
134237-52-8	Rainbow trout (*Oncorhynchus mykiss*)	Fresh	≥ 32-day, measured on day 34	NOAEL = 0.005 mg AI/kg	0, 0.005 mg/kg	Food, Nominal; Solvent: Corn oil	Thyroxine; % recovery: muscle tissue, gallbladder tissue, thyroid tissue, intestine tissue, viscera tissue, liver tissue, blood	{Palace, 2008, 1409610@@author-year}	High	
134237-52-8	Rainbow trout (*Oncorhynchus mykiss*)	Fresh	≥ 32-day, measured on day 36	NOAEL = 0.005 mg AI/kg	0, 0.005 mg/kg	Food, Nominal; Solvent: Corn oil	Thyroxine; % recovery:muscle tissue, gallbladder tissue, thyroid tissue, intestine tissue, viscera tissue, liver tissue, blood	{Palace, 2008, 1409610@@author-year}	High	
134237-52-8	Rainbow trout (*Oncorhynchus mykiss*)	Fresh	≥ 32-day, measured on day 38	NOAEL = 0.005 mg/kg	0, 0.005 mg/kg	Food, Nominal; Solvent: Corn oil	Thyroxine; % recovery: muscle tissue, gallbladder tissue, thyroid tissue, intestine tissue, viscera tissue, liver tissue, blood	{Palace, 2008, 1409610@@author-year}	High	
134237-52-8	Rainbow trout (*Oncorhynchus mykiss*)	Fresh	≥ 32-day, measured on day 46	NOAEL = 0.005 mg AI/kg	0, 0.005 mg/kg	Food, Nominal; Solvent: Corn oil	Thyroxine; % recovery: muscle tissue; intestine tissue, viscera tissue, liver tissue	{Palace, 2008, 1409610@@author-year}	High	
134237-52-8	Rainbow trout (*Oncorhynchus mykiss*)	Fresh	≥ 32-day, measured on day 46	LOAEL = 0.005 mg AI/kg	0, 0.005 mg/kg	Food, Nominal; Solvent: Corn oil	Thyroxine; % recovery:gallbladder tissue, thyroid tissue, blood	{Palace, 2008, 1409610@@author-year}	High	
134237-52-8	Rainbow trout (*Oncorhynchus mykiss*)	Fresh	≥ 32-day, measured on day 34	LOAEL = 0.005 mg AI/kg	0, 0.005 mg/kg	Food, Nominal; Solvent: Corn oil	Type II iodothyronine deiodinase	{Palace, 2008, 1409610@@author-year}	High	
134237-51-7	Rainbow trout (*Oncorhynchus mykiss*)	Fresh	≥ 32-day, measured on day 32	NOAEL = 0.005 mg AI/kg	0, 0.005 mg/kg	Food, Nominal; Solvent: Corn oil	Mortality, Weight, Length, Condition	{Palace, 2008, 1409610@@author-year}	High	

CAS RN	Test Species	Water Type	Duration	End-point	Conc(s)	Test Analysis	Effect(s)	References	Data Quality Ratings	HERO ID.
134237-51-7	Rainbow trout (*Oncorhynchus mykiss*)	Fresh	≥ 32-day, measured on day 34	NOAEL = 0.005 mg AI/kg	0, 0.005 mg/kg	Food, Nominal; Solvent: Corn oil	Thyroxine; % recovery: muscle tissue, gallbladder tissue, thyroid tissue, intestine tissue, viscera tissue, liver tissue, blood	{Palace, 2008, 1409610@@author-year}	High	
134237-51-7	Rainbow trout (*Oncorhynchus mykiss*)	Fresh	≥ 32-day, measured on day 36	NOAEL = 0.005 mg AI/kg	0, 0.005 mg/kg	Food, Nominal; Solvent: Corn oil	Thyroxine; % recovery: muscle tissue, gallbladder tissue, thyroid tissue, intestine tissue, viscera tissue, liver tissue, blood	{Palace, 2008, 1409610@@author-year}	High	
134237-51-7	Rainbow trout (*Oncorhynchus mykiss*)	Fresh	≥ 32-day, measured on day 38	LOAEL = 0.005 mg AI/kg	0, 0.005 mg/kg	Food, Nominal; Solvent: Corn oil	Thyroxine; % recovery: muscle tissue,	{Palace, 2008, 1409610@@author-year}	High	
134237-51-7	Rainbow trout (*Oncorhynchus mykiss*)	Fresh	≥ 32-day, measured on day 46	NOAEL = 0.005 mg AI/kg	0, 0.005 mg/kg	Food, Nominal; Solvent: Corn oil	Thyroxine; % recovery: muscle tissue, intestine tissue , liver tissue	{Palace, 2008, 1409610@@author-year}	High	
134237-51-7	Rainbow trout (*Oncorhynchus mykiss*)	Fresh	≥ 32-day, measured on day 38	NOAEL = 0.005 mg AI/kg	0, 0.005 mg/kg	Food, Nominal; Solvent: Corn oil	Thyroxine; % recovery, gallbladder tissue, thyroid tissue, intestine tissue, viscera tissue, liver tissue, blood	{Palace, 2008, 1409610@@author-year}	High	
134237-51-7	Rainbow trout (*Oncorhynchus mykiss*)	Fresh	≥ 32-day, measured on day 46	LOAEL = 0.005 mg AI/kg	0, 0.005 mg/kg	Food, Nominal; Solvent: Corn oil	Thyroxine; % recovery, gallbladder tissue, thyroid tissue, viscera tissue, blood	{Palace, 2008, 1409610@@author-year}	High	
134237-51-7	Rainbow trout (*Oncorhynchus mykiss*)	Fresh	≥ 32-day, measured on day 34	LOAEL = 0.005 mg AI/kg	0, 0.005 mg/kg	Food, Nominal; Solvent: Corn oil	Type II iodothyronine deiodinase	{Palace, 2008, 1409610@@author-year}	High	

CAS RN	Test Species	Water Type	Duration	End-point	Conc(s)	Test Analysis	Effect(s)	References	Data Quality Ratings	HERO ID.
134237-50-6	Rainbow trout (*Oncorhynchus mykiss*)	Fresh	≥ 32-day, measured on day 32	NOAEL = 0.005 mg AI/kg	0, 0.005 mg/kg	Food, Nominal; Solvent: Corn oil	Mortality, Weight, Length, Condition	{Palace, 2008, 1409610@@author-year}	High	
134237-50-6	Rainbow trout (*Oncorhynchus mykiss*)	Fresh	≥ 32-day, measured on day 34	NOAEL = 0.005 mg AI/kg	0, 0.005 mg/kg	Food, Nominal; Solvent: Corn oil	Thyroxine; % recovery: muscle tissue, gallbladder tissue, thyroid tissue, intestine tissue, viscera tissue, liver tissue, blood; Type II iodothyronine deiodinase	{Palace, 2008, 1409610@@author-year}	High	
134237-50-6	Rainbow trout (*Oncorhynchus mykiss*)	Fresh	≥ 32-day, measured on day 36	NOAEL = 0.005 mg AI/kg	0, 0.005 mg/kg	Food, Nominal; Solvent: Corn oil	Thyroxine; % recovery:muscle tissue, gallbladder tissue, thyroid tissue, intestine tissue, viscera tissue, liver tissue, blood	{Palace, 2008, 1409610@@author-year}	High	
134237-50-6	Rainbow trout (*Oncorhynchus mykiss*)	Fresh	≥ 32-day, measured on day 38	LOAEL = 0.005 mg AI/kg	0, 0.005 mg/kg	Food, Nominal; Solvent: Corn oil	Thyroxine; % recovery: muscle tissue	{Palace, 2008, 1409610@@author-year}	High	
134237-50-6	Rainbow trout (*Oncorhynchus mykiss*)	Fresh	≥ 32-day, measured on day 46	NOAEL = 0.005 mg AI/kg	0, 0.005 mg/kg	Food, Nominal; Solvent: Corn oil	Thyroxine; % recovery: muscle tissue, gallbladder tissue, thyroid tissue, intestine tissue, viscera tissue, liver tissue	{Palace, 2008, 1409610@@author-year}	High	
134237-50-6	Rainbow trout (*Oncorhynchus mykiss*)	Fresh	≥ 32-day, measured on day 38	NOAEL = 0.005 mg AI/kg	0, 0.005 mg/kg	Food, Nominal; Solvent: Corn oil	Thyroxine; % recovery: gallbladder tissue, thyroid tissue, intestine tissue, viscera tissue, liver tissue, blood	{Palace, 2008, 1409610@@author-year}	High	
134237-50-6	Rainbow trout (*Oncorhynchus mykiss*)	Fresh	≥ 32-day, measured on day 46	LOAEL = 0.005 mg AI/kg	0, 0.005 mg/kg	Food, Nominal; Solvent: Corn oil	Thyroxine; % recovery, blood	{Palace, 2008, 1409610@@author-year}	High	

CAS RN	Test Species	Water Type	Duration	End-point	Conc(s)	Test Analysis	Effect(s)	References	Data Quality Ratings	HERO ID.
25637-99-4	Common sole (*Solea solea*)	Salt	6-day	NOEC = 0.25 mg/L	0, 0, 0.025, 0.08, 0.25 mg/L	Renewal, Nominal; Solvent: DMSO	Hatching success	{Foekema, 2014, 2343709@@author-year}	High	2343709
25637-99-4	Common sole (*Solea solea*)	Salt	6-day exposure* followed by 34-day obs. In clean water	Internal Effect Concentration $(IEC)_{50}$ = >12,400 mg/kg lipid weight	2,280 – 12,400 mg/kg lipid weight	Renewal, Measured	Mortality; Growth: completion of metamorphosis	{Foekema, 2014, 2343709@@author-year}	High	
134237-52-8	Zebrafish (*Danio rerio*)	Fresh	42-day	NOAEL = 0.04482 mg AI/kg	0, 0.00486, 0.04482 mg/kg dry wt	Food, Measured	Growth: Weight; % Lipid	{Du, 2012, 1927579@@author-year}	High	1927579
134237-52-8	Zebrafish (*Danio rerio*)	Fresh	42-day	NR-ZERO = 0.04482 mg AI/kg	0, 0.00486, 0.04482 mg/kg dry wt	Food, Measured	Mortality	{Du, 2012, 1927579@@author-year}	High	
134237-52-8	Zebrafish (*Danio rerio*)	Fresh	42-day	BMF = 7.61	0.0048 mg/kg dry wt	Food, Measured	Residue: biomagnification	{Du, 2012, 1927579@@author-year}	High	
134237-52-8	Zebrafish (*Danio rerio*)	Fresh	42-day	BMF = 7.76	0.04482 mg/kg dry wt	Food, Measured	Residue: biomagnification	{Du, 2012, 1927579@@author-year}	High	
134237-51-7	Zebrafish (*Danio rerio*)	Fresh	42-day	NOAEL = 0.04748 mg AI/kg	0, 0.00452, 0.04748 mg/kg dry wt	Food, Measured	Growth: Weight; % Lipid	{Du, 2012, 1927579@@author-year}	High	
134237-51-7	Zebrafish (*Danio rerio*)	Fresh	42-day	NR-ZERO = 0.04748 mg AI/kg	0, 0.00452, 0.04748 mg/kg dry wt	Food, Measured	Mortality	{Du, 2012, 1927579@@author-year}	High	
134237-51-7	Zebrafish (*Danio rerio*)	Fresh	42-day	BMF = 11.63	0.00452 mg/kg dry wt	Food, Measured	Residue: biomagnification	{Du, 2012, 1927579@@author-year}	High	
134237-51-7	Zebrafish (*Danio rerio*)	Fresh	42-day	BMF = 7.34	0.04748 mg/kg dry wt	Food, Measured	Residue: biomagnification	{Du, 2012, 1927579@@author-year}	High	
134237-50-6	Zebrafish (*Danio rerio*)	Fresh	42-day	NOAEL = 0.04576 mg AI/kg	0, 0.00443, 0.04576 mg/kg dry wt	Food, Measured	Growth: Weight; % Lipid	{Du, 2012, 1927579@@author-year}	High	
134237-50-6	Zebrafish (*Danio rerio*)	Fresh	42-day	NR-ZERO = 0.04576 mg AI/kg	0, 0.00443, 0.04576 mg/kg dry wt	Food, Measured	Mortality	{Du, 2012, 1927579@@author-year}	High	
134237-50-6	Zebrafish (*Danio rerio*)	Fresh	42-day	BMF = 29.71	0.00443 mg/kg dry wt	Food, Measured	Residue: biomagnification	{Du, 2012, 1927579@@author-year}	High	

CAS RN	Test Species	Water Type	Duration	End-point	Conc(s)	Test Analysis	Effect(s)	References	Data Quality Ratings	HERO ID.
134237-50-6	Zebrafish (*Danio rerio*)	Fresh	42-day	BMF = 12.33	0.04576 mg/kg dry wt	Food, Measured	Residue: biomagnification	{Du, 2012, 1927579@@author-year}	High	
25637-99-4	Threespine Stickleback (*Gasterosteus aculeatus*)	Salt	30-day	NOAEL = 0.0003 mg AI/L	0, 0.00003, 0.0003 mg/L	Flow-through, Nominal, Solvent: Acetone	DNA methylation	{Aniagu, 2008, 1412194@@author-year}	Low	1412194
25637-99-4	Rainbow trout (*Oncorhynchus mykiss*)	Fresh	33-day	NOEC = 0.0037 mg AI/L	0, 0, 0.00025, 0.00047, 0.00083, 0.0018, 0.0037 mg/L	Flow-through, Measured. Solvent: Acetone	Hatching success	{Drottar, 2001, 4796184@@author-year}	**This study needs to be reviewed**	4796184
25637-99-4	Rainbow trout (*Oncorhynchus mykiss*)	Fresh	61-day	NOEC = 0.0037 mg AI/L	0, 0, 0.00025, 0.00047, 0.00083, 0.0018, 0.0037 mg/L	Flow-through, Measured. Solvent: Acetone	Mortality; Growth: Weight; Growth: Length; Time to Swim-up	{Drottar, 2001, 4796184@@author-year}		
134237-52-8	Common Carp (*Cyprinus carpio*)	Fresh	60-day	Kinetic BCF (gill) = 237	0, 0.001 mg/L	Renewal, Measured	Residue; Bioconcentration	{Zhang, 2014, 2343723@@author-year}	High	2343723
134237-52-8	Common Carp (*Cyprinus carpio*)	Fresh	60-day	Kinetic BCF (viscera) = 584	0, 0.001 mg/L	Renewal, Measured	Residue; Bioconcentration	{Zhang, 2014, 2343723@@author-year}	High	
134237-52-8	Common Carp (*Cyprinus carpio*)	Fresh	60-day	Kinetic BCF (muscle) = 221	0, 0.001 mg/L	Renewal, Measured	Residue; Bioconcentration	{Zhang, 2014, 2343723@@author-year}	High	
134237-52-8	Common Carp (*Cyprinus carpio*)	Fresh	60-day	Kinetic BCF (skin) = 227	0, 0.001 mg/L	Renewal, Measured	Residue; Bioconcentration	{Zhang, 2014, 2343723@@author-year}	High	
134237-52-8	Common Carp (*Cyprinus carpio*)	Fresh	60-day	Lipid-Normalized Kinetic BCF (gill) = 950	0, 0.001 mg/L	Renewal, Measured	Residue; Bioconcentration	{Zhang, 2014, 2343723@@author-year}	High	
134237-52-8	Common Carp (*Cyprinus carpio*)	Fresh	60-day	Lipid-Normalized Kinetic BCF (viscera) = 1,730	0, 0.001 mg/L	Renewal, Measured	Residue; Bioconcentration	{Zhang, 2014, 2343723@@author-year}	High	
134237-52-8	Common Carp (*Cyprinus carpio*)	Fresh	60-day	Lipid-Normalized Kinetic BCF (muscle) = 1,220	0, 0.001 mg/L	Renewal, Measured	Residue; Bioconcentration	{Zhang, 2014, 2343723@@author-year}	High	
134237-52-8	Common Carp (*Cyprinus carpio*)	Fresh	60-day	Lipid-Normalized Kinetic BCF (skin) = 1,610	0, 0.001 mg/L	Renewal, Measured	Residue; Bioconcentration	{Zhang, 2014, 2343723@@author-year}	High	
134237-51-7	Common Carp (*Cyprinus carpio*)	Fresh	60-day	Kinetic BCF (gill) = 322	0, 0.001 mg/L	Renewal, Measured	Residue; Bioconcentration	{Zhang, 2014, 2343723@@author-year}	High	

CAS RN	Test Species	Water Type	Duration	End-point	Conc(s)	Test Analysis	Effect(s)	References	Data Quality Ratings	HERO ID.
134237-51-7	Common Carp (*Cyprinus carpio*)	Fresh	60-day	Kinetic BCF (viscera) = 642	0, 0.001 mg/L	Renewal, Measured	Residue; Bioconcentration	{Zhang, 2014, 2343723@@author-year}	High	
134237-51-7	Common Carp (*Cyprinus carpio*)	Fresh	60-day	Kinetic BCF (muscle) = 187	0, 0.001 mg/L	Renewal, Measured	Residue; Bioconcentration	{Zhang, 2014, 2343723@@author-year}	High	
134237-51-7	Common Carp (*Cyprinus carpio*)	Fresh	60-day	Kinetic BCF (skin) = 204	0, 0.001 mg/L	Renewal, Measured	Residue; Bioconcentration	{Zhang, 2014, 2343723@@author-year}	High	
134237-51-7	Common Carp (*Cyprinus carpio*)	Fresh	60-day	Lipid-Normalized Kinetic BCF (gill) = 1,290	0, 0.001 mg/L	Renewal, Measured	Residue; Bioconcentration	{Zhang, 2014, 2343723@@author-year}	High	
134237-51-7	Common Carp (*Cyprinus carpio*)	Fresh	60-day	Lipid-Normalized Kinetic BCF (viscera) = 1,900	0, 0.001 mg/L	Renewal, Measured	Residue; Bioconcentration	{Zhang, 2014, 2343723@@author-year}	High	
134237-51-7	Common Carp (*Cyprinus carpio*)	Fresh	60-day	Lipid-Normalized Kinetic BCF (muscle) = 1,030	0, 0.001 mg/L	Renewal, Measured	Residue; Bioconcentration	{Zhang, 2014, 2343723@@author-year}	High	
134237-51-7	Common Carp (*Cyprinus carpio*)	Fresh	60-day	Lipid-Normalized Kinetic BCF (skin) = 1,440	0, 0.001 mg/L	Renewal, Measured	Residue; Bioconcentration	{Zhang, 2014, 2343723@@author-year}	High	
134237-50-6	Common Carp (*Cyprinus carpio*)	Fresh	60-day	Kinetic BCF (gill) = 8,580	0, 0.001 mg/L	Renewal, Measured	Residue; Bioconcentration	{Zhang, 2014, 2343723@@author-year}	High	
134237-50-6	Common Carp (*Cyprinus carpio*)	Fresh	60-day	Kinetic BCF (viscera) = 11,500	0, 0.001 mg/L	Renewal, Measured	Residue; Bioconcentration	{Zhang, 2014, 2343723@@author-year}	High	
134237-50-6	Common Carp (*Cyprinus carpio*)	Fresh	60-day	Kinetic BCF (muscle) = 5,570	0, 0.001 mg/L	Renewal, Measured	Residue; Bioconcentration	{Zhang, 2014, 2343723@@author-year}	High	
134237-50-6	Common Carp (*Cyprinus carpio*)	Fresh	60-day	Kinetic BCF (skin) = 6,400	0, 0.001 mg/L	Renewal, Measured	Residue; Bioconcentration	{Zhang, 2014, 2343723@@author-year}	High	
134237-50-6	Common Carp (*Cyprinus carpio*)	Fresh	60-day	Lipid-Normalized Kinetic BCF (gill) = 34,500	0, 0.001 mg/L	Renewal, Measured	Residue; Bioconcentration	{Zhang, 2014, 2343723@@author-year}	High	
134237-50-6	Common Carp (*Cyprinus carpio*)	Fresh	60-day	Lipid-Normalized Kinetic BCF (viscera) = 34,200	0, 0.001 mg/L	Renewal, Measured	Residue; Bioconcentration	{Zhang, 2014, 2343723@@author-year}	High	
134237-50-6	Common Carp (*Cyprinus carpio*)	Fresh	60-day	Lipid-Normalized Kinetic BCF (muscle) = 30,700	0, 0.001 mg/L	Renewal, Measured	Residue; Bioconcentration	{Zhang, 2014, 2343723@@author-year}	High	

CAS RN	Test Species	Water Type	Duration	End-point	Conc(s)	Test Analysis	Effect(s)	References	Data Quality Ratings	HERO ID.
134237-50-6	Common Carp (*Cyprinus carpio*)	Fresh	60-day	Lipid-Normalized Kinetic BCF (skin) = 45,200	0, 0.001 mg/L	Renewal, Measured	Residue; Bioconcentration	{Zhang, 2014, 2343723@@author-year}	High	
25637-99-4	Starry, European Flounder (*Platichthys flesus*)	Brackish ~~Fresh~~	78-day	NOAEL = 3000 mg/kg lipid diet with 800 mg/kg TOC sediment OR 0 mg/kg lipid diet with 8000 mg/kg TOC sediment	Diet (mg/kg lipid)/sediment (mg/kg total organic carbon): 0/0; 0.3/0.08; 3/0.8; 30/8; 300/80; 3000/800; 0/8000	Multiple routes (diet and sediment), Nominal, Solvent: Acetone	Thyroxine; Aromatase; 7-Ethoxyresorufin O-deethylase; Triiodothyronine; Benzylresorufin O-deethylase; Pentylresorufin O-deethylase	{Kuiper, 2007, 1412802@@author-year}	High	1412802
25637-99-4	Starry, European Flounder (*Platichthys flesus*)	Brackish	78-day	NOAEL = 30 mg/kg lipid diet with 8 mg/kg TOC sediment; LOAEL = 300 mg/kg lipid diet with 80 mg/kg TOC sediment	Diet (mg/kg lipid)/sediment (mg/kg total organic carbon): 0/0; 0.3/0.08; 3/0.8; 30/8; 300/80; 3000/800; 0/8000	Multiple routes (diet and sediment), Nominal, Solvent: Acetone	Residue: α-HBCD concentration in muscle; β-HBCD concentration in muscle	{Kuiper, 2007, 1412802@@author-year}	High	
25637-99-4	Starry, European Flounder (*Platichthys flesus*)	Brackish	78-day	LOAEL = 0.3 mg/kg lipid diet with 0.08 mg/kg TOC sediment	Diet (mg/kg lipid)/sediment (mg/kg total organic carbon): 0/0; 0.3/0.08; 3/0.8; 30/8; 300/80; 3000/800; 0/8000	Multiple routes (diet and sediment), Nominal, Solvent: Acetone	Residue; γ-HBCD concentration in muscle	{Kuiper, 2007, 1412802@@author-year}	High	
134237-52-8	Rainbow trout (*Oncorhynchus mykiss*)	Fresh	168-day (56-day exposure to treated food then 112 days untreated food)	BMF = 7.2	0.0003, 0.02284 mg/kg	Food, Measured; Lipid-corrected	Residue; biomagnification	{Law, 2006, 1443861@@author-year}	Low	1443861

CAS RN	Test Species	Water Type	Duration	End-point	Conc(s)	Test Analysis	Effect(s)	References	Data Quality Ratings	HERO ID.
134237-51-7	Rainbow trout (*Oncorhynchus mykiss*)	Fresh	168-day (56-day exposure to treated food then 112 days untreated food)	BMF = 4.3	0.0003, 0.01184 mg/kg	Food, Measured; Lipid-corrected	Residue; biomagnification	{Law, 2006, 1443861@@author-year}	Low	
134237-50-6	Rainbow trout (*Oncorhynchus mykiss*)	Fresh	168-day (56-day exposure to treated food then 112 days untreated food)	BMF = 9.2	0.0003, 0.02914 mg/kg	Food, Measured; Lipid-corrected	Residue; biomagnification	{Law, 2006, 1443861@@author-year}	Low	
Amphibians										
25637-99-4	African clawed frog (Xenopus laevis)	Fresh	1-day	NOAEL = 6.417 mg AI/L	0, 0.64, 6.4 mg/L	*In vitro*, Nominal, Solvent: DMSO	Developmental: Tail resorption	{Schriks, 2006, 938764@@author-year}	Unacceptable	
25637-99-4	African clawed frog (Xenopus laevis)	Fresh	2-day	NOAEL = 6.417mg AI/L	0, 0.64, 6.4 mg/L	*In vitro*, Nominal, Solvent: DMSO	Developmental: Tail resorption	{Schriks, 2006, 938764@@author-year}	Unacceptable	938764
25637-99-4	African clawed frog (Xenopus laevis)	Fresh	3-day	NOAEL = 6.417 mg AI/L	0, 0.64, 6.4 mg/L	*In vitro*, Nominal, Solvent: DMSO	Developmental: Tail resorption	{Schriks, 2006, 938764@@author-year}	Unacceptable	
25637-99-4	African clawed frog (Xenopus laevis)	Fresh	4-day	NOAEL = 6.417 mg AI/L	0, 0.64, 6.4 mg/L	*In vitro*, Nominal, Solvent: DMSO	Developmental: Tail resorption	{Schriks, 2006, 938764@@author-year}	Unacceptable	
25637-99-4	African clawed frog (Xenopus laevis)	Fresh	5-day	NOAEL = 6.417 mg AI/L	0, 0.64, 6.4 mg/L	*In vitro*, Nominal, Solvent: DMSO	Developmental: Tail resorption	{Schriks, 2006, 938764@@author-year}	Unacceptable	
25637-99-4	African clawed frog (Xenopus laevis)	Fresh	6-day	NOAEL = 6.417 mg AI/L	0, 0.64, 6.4 mg/L	*In vitro*, Nominal, Solvent: DMSO	Developmental: Tail resorption	{Schriks, 2006, 938764@@author-year}	Unacceptable	
25637-99-4	African clawed frog (Xenopus laevis)	Fresh	8-day	NOAEL = 0.642 mg AI/L	0, 0.64 mg/L	Renewal, Nominal, Solvent: DMSO	Cell proliferation	{Schriks, 2006, 938764@@author-year}	Unacceptable	
25637-99-4	African clawed frog (Xenopus laevis)	Fresh	8-day	NR-ZERO = 0.642 mg AI/L	0, 0.64 mg/L	Renewal, Nominal, Solvent: DMSO	Mortality	{Schriks, 2006, 938764@@author-year}	Unacceptable	

Table 2. On-topic terrestrial toxicity studies that were evaluated for HBCD

CAS RN	Test Species	Media	Duration	End-point	Conc(s)	Test Analysis	Effect(s)	References	Data Quality Ratings	HERO ID.
Terrestrial Vegetation										
134237-52- 8	Corn (*Zea mays*)	Hydroponic	3-hour	LOAEL = 0.002 mg/L	0, 0.002 mg/L	Hydroponic solution application, Nominal	Reactive oxygen species: Radical relative intensity in roots, Radical relative intensity in shoots	{Wu, 2012, 1927583@@author-year}	High	1927583
134237-52-8	Corn (*Zea mays*)	Hydroponic	7-hour	LOAEL = 0.002 mg/L	0, 0.002 mg/L	Hydroponic solution application, Nominal	Reactive oxygen species: Radical relative intensity in roots; Histone H2AX mRNA: Relative γ-H2AX level in roots, Relative γ-H2AX level in shoots	{Wu, 2012, 1927583@@author-year}	High	
134237-52-8	Corn (*Zea mays*)	Hydroponic	12-hour	LOAEL = 0.002 mg/L	0, 0.002 mg/L	Hydroponic solution application, Nominal	Reactive oxygen species: Radical relative intensity in roots; Histone H2AX mRNA: Relative γ-H2AX level in roots, Relative γ-H2AX level in shoots	{Wu, 2012, 1927583@@author-year}	High	
134237-52-8	Corn (*Zea mays*)	Hydroponic	24-hour	LOAEL = 0.002 mg/L	0, 0.002 mg/L	Hydroponic solution application, Nominal	Reactive oxygen species: Radical relative intensity in roots, Radical relative intensity in shoots; Histone H2AX mRNA: Relative γ-H2AX level in shoots	{Wu, 2012, 1927583@@author-year}	High	

CAS RN	Test Species	Media	Duration	End-point	Conc(s)	Test Analysis	Effect(s)	References	Data Quality Ratings	HERO ID.
134237-52-8	Corn (*Zea mays*)	Hydroponic	72-hour	NOAEL = 0.002 mg/L	0, 0.002 mg/L	Hydroponic solution application, Nominal	Reactive oxygen species: Radical relative intensity in roots; Histone H2AX mRNA: Relative γ-H2AX level in roots, Relative γ-H2AX level in shoots	{Wu, 2012, 1927583@@author-year}	High	
134237-52-8	Corn (*Zea mays*)	Hydroponic	96-hour	NOAEL = 0.002 mg/L	0, 0.002 mg/L	Hydroponic solution application, Nominal	Reactive oxygen species: Radical relative intensity in roots; Histone H2AX mRNA: Relative γ-H2AX level in roots, Relative γ-H2AX level in shoots	{Wu, 2012, 1927583@@author-year}	High	
134237-52-8	Corn (*Zea mays*)	Hydroponic	7-hour	NOAEL = 0.002 mg/L	0, 0.002 mg/L	Hydroponic solution application, Nominal	Reactive oxygen species: Radical relative intensity in shoots	{Wu, 2012, 1927583@@author-year}	High	
134237-52-8	Corn (*Zea mays*)	Hydroponic	12-hour	NOAEL = 0.002 mg/L	0, 0.002 mg/L	Hydroponic solution application, Nominal	Reactive oxygen species: Radical relative intensity in shoots	{Wu, 2012, 1927583@@author-year}	High	
134237-52-8	Corn (*Zea mays*)	Hydroponic	72-hour	LOAEL = 0.002 mg/L	0, 0.002 mg/L	Hydroponic solution application, Nominal	Reactive oxygen species: Radical relative intensity in shoots	{Wu, 2012, 1927583@@author-year}	High	

CAS RN	Test Species	Media	Duration	End-point	Conc(s)	Test Analysis	Effect(s)	References	Data Quality Ratings	HERO ID.
134237-52-8	Corn (*Zea mays*)	Hydroponic	96-hour	LOAEL = 0.002 mg/L	0, 0.002 mg/L	Hydroponic solution application, Nominal	Reactive oxygen species: Radical relative intensity in shoots; Growth: Inhibition of seed germination; Growth: Inhibition of root biomass; Growth: Inhibition of shoot biomass; Growth: Root elongation; Growth: Shoot elongation	{Wu, 2012, 1927583@@author-year}	High	
134237-52-8	Corn (*Zea mays*)	Hydroponic	3-hour	NOAEL = 0.002 mg/L	0, 0.002 mg/L	Hydroponic solution application, Nominal	Histone H2AX mRNA: Relative γ-H2AX level in roots, Relative γ-H2AX level in shoots	{Wu, 2012, 1927583@@author-year}	High	
134237-52-8	Corn (*Zea mays*)	Hydroponic	24-hour	NOAEL = 0.002 mg/L	0, 0.002 mg/L	Hydroponic solution application, Nominal	Histone H2AX mRNA: Relative γ-H2AX level in roots	{Wu, 2012, 1927583@@author-year}	High	
134237-51-7	Corn (*Zea mays*)	Hydroponic	3-hour	NOAEL = 0.002 mg/L	0, 0.002 mg/L	Hydroponic solution application, Nominal	Reactive oxygen species: Radical relative intensity in roots; Histone H2AX mRNA: Relative γ-H2AX level in roots, Relative γ-H2AX level in shoots	{Wu, 2012, 1927583@@author-year}	High	

CAS RN	Test Species	Media	Duration	End-point	Conc(s)	Test Analysis	Effect(s)	References	Data Quality Ratings	HERO ID.
134237-51-7	Corn (*Zea mays*)	Hydroponic	7-hour	LOAEL = 0.002 mg/L	0, 0.002 mg/L	Hydroponic solution application, Nominal	Reactive oxygen species: Radical relative intensity in roots, Radical relative intensity in shoots; Histone H2AX mRNA: Relative γ-H2AX level in roots, Relative γ-H2AX level in shoots	{Wu, 2012, 1927583@@author-year}	High	
134237-51-7	Corn (*Zea mays*)	Hydroponic	12-hour	LOAEL = 0.002 mg/L	0, 0.002 mg/L	Hydroponic solution application, Nominal	Reactive oxygen species: Radical relative intensity in roots, Radical relative intensity in shoots; Histone H2AX mRNA: Relative γ-H2AX level in roots, Relative γ-H2AX level in shoots	{Wu, 2012, 1927583@@author-year}	High	
134237-51-7	Corn (*Zea mays*)	Hydroponic	24-hour	LOAEL = 0.002 mg/L	0, 0.002 mg/L	Hydroponic solution application, Nominal	Reactive oxygen species: Radical relative intensity in roots, Radical relative intensity in shoots; Histone H2AX mRNA: Relative γ-H2AX level in roots, Relative γ-H2AX level in shoots	{Wu, 2012, 1927583@@author-year}	High	

CAS RN	Test Species	Media	Duration	End-point	Conc(s)	Test Analysis	Effect(s)	References	Data Quality Ratings	HERO ID.
134237-51-7	Corn (*Zea mays*)	Hydroponic	72-hour	NOAEL = 0.002 mg/L	0, 0.002 mg/L	Hydroponic solution application, Nominal	Reactive oxygen species: Radical relative intensity in roots; Histone H2AX mRNA: Relative γ-H2AX level in roots, Relative γ-H2AX level in shoots	{Wu, 2012, 1927583@@author-year}	High	
134237-51-7	Corn (*Zea mays*)	Hydroponic	96-hour	NOAEL = 0.002 mg/L	0, 0.002 mg/L	Hydroponic solution application, Nominal	Reactive oxygen species: Radical relative intensity in roots; Histone H2AX mRNA: Relative γ-H2AX level in roots, Relative γ-H2AX level in shoots	{Wu, 2012, 1927583@@author-year}	High	
134237-51-7	Corn (*Zea mays*)	Hydroponic	3-hour	LOAEL = 0.002 mg/L	0, 0.002 mg/L	Hydroponic solution application, Nominal	Reactive oxygen species: Radical relative intensity in shoots	{Wu, 2012, 1927583@@author-year}	High	
134237-51-7	Corn (*Zea mays*)	Hydroponic	72-hour	LOAEL = 0.002 mg/L	0, 0.002 mg/L	Hydroponic solution application, Nominal	Reactive oxygen species: Radical relative intensity in shoots	{Wu, 2012, 1927583@@author-year}	High	

CAS RN	Test Species	Media	Duration	End-point	Conc(s)	Test Analysis	Effect(s)	References	Data Quality Ratings	HERO ID.
134237-51-7	Corn (*Zea mays*)	Hydroponic	96-hour	LOAEL = 0.002 mg/L	0, 0.002 mg/L	Hydroponic solution application, Nominal	Reactive oxygen species: Radical relative intensity in shoots; Growth: Inhibition of seed germination; Growth: Inhibition of root biomass; Growth: Inhibition of shoot biomass; Growth: Root elongation; Growth: Shoot elongation	{Wu, 2012, 1927583@@author-year}	High	
134237-50-6	Corn (*Zea mays*)	Hydroponic	3-hour	LOAEL = 0.002 mg/L	0, 0.002 mg/L	Hydroponic solution application, Nominal	Reactive oxygen species: Radical relative intensity in roots, Radical relative intensity in shoots;	{Wu, 2012, 1927583@@author-year}	High	
134237-50-6	Corn (*Zea mays*)	Hydroponic	7-hour	LOAEL = 0.002 mg/L	0, 0.002 mg/L	Hydroponic solution application, Nominal	Reactive oxygen species: Radical relative intensity in roots, Radical relative intensity in shoots; Histone H2AX mRNA: Relative γ-H2AX level in roots, Relative γ-H2AX level in shoots	{Wu, 2012, 1927583@@author-year}	High	

CAS RN	Test Species	Media	Duration	End-point	Conc(s)	Test Analysis	Effect(s)	References	Data Quality Ratings	HERO ID.
134237-50-6	Corn (*Zea mays*)	Hydroponic	12-hour	LOAEL = 0.002 mg/L	0, 0.002 mg/L	Hydroponic solution application, Nominal	Reactive oxygen species: Radical relative intensity in roots, Radical relative intensity in shoots; Histone H2AX mRNA: Relative γ-H2AX level in roots, Relative γ-H2AX level in shoots	{Wu, 2012, 1927583@@author-year}	High	
134237-50-6	Corn (*Zea mays*)	Hydroponic	24-hour	LOAEL = 0.002 mg/L	0, 0.002 mg/L	Hydroponic solution application, Nominal	Reactive oxygen species: Radical relative intensity in roots, Radical relative intensity in shoots; Histone H2AX mRNA: Relative γ-H2AX level in roots, Relative γ-H2AX level in shoots	{Wu, 2012, 1927583@@author-year}	High	
134237-50-6	Corn (*Zea mays*)	Hydroponic	72-hour	LOAEL = 0.002 mg/L	0, 0.002 mg/L	Hydroponic solution application, Nominal	Reactive oxygen species: Radical relative intensity in roots, Radical relative intensity in shoots; Histone H2AX mRNA: Relative γ-H2AX level in roots	{Wu, 2012, 1927583@@author-year}	High	

CAS RN	Test Species	Media	Duration	End-point	Conc(s)	Test Analysis	Effect(s)	References	Data Quality Ratings	HERO ID.
134237-50-6	Corn (*Zea mays*)	Hydroponic	96-hour	NOAEL = 0.002 mg/L	0, 0.002 mg/L	Hydroponic solution application, Nominal	Reactive oxygen species: Radical relative intensity in roots; Histone H2AX mRNA: Relative γ-H2AX level in roots, Relative γ-H2AX level in shoots	{Wu, 2012, 1927583@@author-year}	High	
134237-50-6	Corn (*Zea mays*)	Hydroponic	96-hour	LOAEL = 0.002 mg/L	0, 0.002 mg/L	Hydroponic solution application, Nominal	Reactive oxygen species: Radical relative intensity in shoots; Growth: Inhibition of seed germination; Growth: Inhibition of root biomass; Growth: Inhibition of shoot biomass; Growth: Root elongation; Growth: Shoot elongation	{Wu, 2012, 1927583@@author-year}	High	
134237-50-6	Corn (*Zea mays*)	Hydroponic	3-hour	NOAEL = 0.002 mg/L	0, 0.002 mg/L	Hydroponic solution application, Nominal	Histone H2AX mRNA: Relative γ-H2AX level in roots, Relative γ-H2AX level in shoots	{Wu, 2012, 1927583@@author-year}	High	
134237-50-6	Corn (*Zea mays*)	Hydroponic	72-hour	NOAEL = 0.002 mg/L	0, 0.002 mg/L	Hydroponic solution application, Nominal	Histone H2AX mRNA: Relative γ-H2AX level in shoots	{Wu, 2012, 1927583@@author-year}	High	
25637-99-4	Corn (*Zea mays*)	Filter paper	4-day	LOAEL = 0.002 mg/L	0, 0.002, 0.005, 0.01, 0.02, 0.05 mg/L	Renewal, Nominal, Solvent: Methanol	Growth: Root biomass; Growth: Root length; Growth: Shoot biomass; Germination	{Wu, 2016, 3350472@@author-year}	High	3350472

CAS RN	Test Species	Media	Duration	End-point	Conc(s)	Test Analysis	Effect(s)	References	Data Quality Ratings	HERO ID.
25637-99-4	Corn (*Zea mays*)	Filter paper	4-day	NOAEL = 0.002 mg/L; LOAEL = 0.005 mg/L	0, 0.002, 0.005, 0.01, 0.02, 0.05 mg/L	Renewal, Nominal, Solvent: Methanol	Growth: Shoot length; Histone H2AX mRNA: Root	{Wu, 2016, 3350472@@author-year}	High	
25637-99-4	Corn (*Zea mays*)	Filter paper	4-day	NOAEL = 0.005 mg/L; LOAEL = 0.01 mg/L	0, 0.002, 0.005, 0.01, 0.02, 0.05 mg/L	Renewal, Nominal, Solvent: Methanol	Histone H2AX mRNA: Shoot	{Wu, 2016, 3350472@@author-year}	High	
134237-52-8	Bread Wheat (*Triticum aestivum*)	Natural soil	1-week	BCF (root) =0.550	0, 0.0628 mg/kg dry soil	Multiple routes within environmental exposure chamber, Measured, Solvent: Methylene chloride	Residue; Bioconcentration	{Zhu, 2016, 3350492@@author-year}	High	3350492
134237-52-8	Bread Wheat (*Triticum aestivum*)	Natural soil	1-week	BCF (stem) = 0.100	0, 0.0628 mg/kg dry soil	Multiple routes within environmental exposure chamber Measured, Solvent: Methylene chloride	Residue; Bioconcentration	{Zhu, 2016, 3350492@@author-year}	High	
134237-52-8	Bread Wheat (*Triticum aestivum*)	Natural soil	1-week	BCF (leaf) = 0.157	0, 0.0628 mg/kg dry soil	Multiple routes within environmental exposure chamber Measured, Solvent: Methylene chloride	Residue; Bioconcentration	{Zhu, 2016, 3350492@@author-year}	High	
134237-52-8	Bread Wheat (*Triticum aestivum*)	Natural soil	2-week	BCF (root) = 0.961	0, 0.0628 mg/kg dry soil	Multiple routes within environmental exposure chamber Measured, Solvent: Methylene chloride	Residue; Bioconcentration	{Zhu, 2016, 3350492@@author-year}	High	
134237-52-8	Bread Wheat (*Triticum aestivum*)	Natural soil	2-week	BCF (stem) = 0.203	0, 0.0628 mg/kg dry soil	Multiple routes within environmental exposure chamber Measured, Solvent: Methylene chloride	Residue; Bioconcentration	{Zhu, 2016, 3350492@@author-year}	High	
134237-52-8	Bread Wheat (*Triticum aestivum*)	Natural soil	2-week	BCF (leaf) = 0.259	0, 0.0628 mg/kg dry soil	Multiple routes within environmental exposure chamber Measured, Solvent: Methylene chloride	Residue; Bioconcentration	{Zhu, 2016, 3350492@@author-year}	High	

CAS RN	Test Species	Media	Duration	End-point	Conc(s)	Test Analysis	Effect(s)	References	Data Quality Ratings	HERO ID.
134237-52-8	Bread Wheat (*Triticum aestivum*)	Natural soil	3-week	BCF (root) = 1.27	0, 0.0628 mg/kg dry soil	Multiple routes within environmental exposure chamber, Measured, Solvent: Methylene chloride	Residue; Bioconcentration	{Zhu, 2016, 3350492@@author-year}	High	
134237-52-8	Bread Wheat (*Triticum aestivum*)	Natural soil	3-week	BCF (stem) = 0.284	0, 0.0628 mg/kg dry soil	Multiple routes within environmental exposure chamber Measured, Solvent: Methylene chloride	Residue; Bioconcentration	{Zhu, 2016, 3350492@@author-year}	High	
134237-52-8	Bread Wheat (*Triticum aestivum*)	Natural soil	3-week	BCF (leaf) = 0.473	0, 0.0628 mg/kg dry soil	Multiple routes within environmental exposure chamber Measured, Solvent: Methylene chloride	Residue; Bioconcentration	{Zhu, 2016, 3350492@@author-year}	High	
134237-52-8	Bread Wheat (*Triticum aestivum*)	Natural soil	4-week	BCF (root) = 1.99	0, 0.0628 mg/kg dry soil	Multiple routes within environmental exposure chamber Measured, Solvent: Methylene chloride	Residue; Bioconcentration	{Zhu, 2016, 3350492@@author-year}	High	
134237-52-8	Bread Wheat (*Triticum aestivum*)	Natural soil	4-week	BCF (stem) = 0.472	0, 0.0628 mg/kg dry soil	Multiple routes within environmental exposure chamber Measured, Solvent: Methylene chloride	Residue; Bioconcentration	{Zhu, 2016, 3350492@@author-year}	High	
134237-52-8	Bread Wheat (*Triticum aestivum*)	Natural soil	4-week	BCF (leaf) = 0.755	0, 0.0628 mg/kg dry soil	Multiple routes within environmental exposure chamber Measured, Solvent: Methylene chloride	Residue; Bioconcentration	{Zhu, 2016, 3350492@@author-year}	High	
134237-51-7	Bread Wheat (*Triticum aestivum*)	Natural soil	1-week	BCF (root) = 1.10	0, 0.0908 mg/kg dry soil	Multiple routes within environmental exposure chamber Measured, Solvent: Methylene chloride	Residue; Bioconcentration	{Zhu, 2016, 3350492@@author-year}	High	
134237-51-7	Bread Wheat (*Triticum aestivum*)	Natural soil	1-week	BCF (stem) = 0.231	0, 0.0908 mg/kg dry soil	Multiple routes within environmental exposure chamber Measured, Solvent: Methylene chloride	Residue; Bioconcentration	{Zhu, 2016, 3350492@@author-year}	High	

CAS RN	Test Species	Media	Duration	End-point	Conc(s)	Test Analysis	Effect(s)	References	Data Quality Ratings	HERO ID.
134237-51-7	Bread Wheat (*Triticum aestivum*)	Natural soil	1-week	BCF (leaf) = 0.134	0, 0.0908 mg/kg dry soil	Multiple routes within environmental exposure chamber Measured, Solvent: Methylene chloride	Residue; Bioconcentration	{Zhu, 2016, 3350492@@author-year}	High	
134237-51-7	Bread Wheat (*Triticum aestivum*)	Natural soil	2-week	BCF (root) = 1.36	0, 0.0908 mg/kg dry soil	Multiple routes within environmental exposure chamber Measured, Solvent: Methylene chloride	Residue; Bioconcentration	{Zhu, 2016, 3350492@@author-year}	High	
134237-51-7	Bread Wheat (*Triticum aestivum*)	Natural soil	2-week	BCF (stem) = 0.315	0, 0.0908 mg/kg dry soil	Multiple routes within environmental exposure chamber Measured, Solvent: Methylene chloride	Residue; Bioconcentration	{Zhu, 2016, 3350492@@author-year}	High	
134237-51-7	Bread Wheat (*Triticum aestivum*)	Natural soil	2-week	BCF (leaf) = 0.175	0, 0.0908 mg/kg dry soil	Multiple routes within environmental exposure chamber Measured, Solvent: Methylene chloride	Residue; Bioconcentration	{Zhu, 2016, 3350492@@author-year}	High	
134237-51-7	Bread Wheat (*Triticum aestivum*)	Natural soil	3-week	BCF (root) = 2.07	0, 0.0908 mg/kg dry soil	Multiple routes within environmental exposure chamber, Measured, Solvent: Methylene chloride	Residue; Bioconcentration	{Zhu, 2016, 3350492@@author-year}	High	
134237-51-7	Bread Wheat (*Triticum aestivum*)	Natural soil	3-week	BCF (stem) = 0.514	0, 0.0908 mg/kg dry soil	Multiple routes within environmental exposure chamber Measured, Solvent: Methylene chloride	Residue; Bioconcentration	{Zhu, 2016, 3350492@@author-year}	High	
134237-51-7	Bread Wheat (*Triticum aestivum*)	Natural soil	3-week	BCF (leaf) = 0.335	0, 0.0908 mg/kg dry soil	Multiple routes within environmental exposure chamber Measured, Solvent: Methylene chloride	Residue; Bioconcentration	{Zhu, 2016, 3350492@@author-year}	High	
134237-51-7	Bread Wheat (*Triticum aestivum*)	Natural soil	4-week	BCF (root) = 3.08	0, 0.0908 mg/kg dry soil	Multiple routes within environmental exposure chamber Measured, Solvent: Methylene chloride	Residue; Bioconcentration	{Zhu, 2016, 3350492@@author-year}	High	

CAS RN	Test Species	Media	Duration	End-point	Conc(s)	Test Analysis	Effect(s)	References	Data Quality Ratings	HERO ID.
134237-51-7	Bread Wheat (*Triticum aestivum*)	Natural soil	4-week	BCF (stem) = 0.842	0, 0.0908 mg/kg dry soil	Multiple routes within environmental exposure chamber Measured, Solvent: Methylene chloride	Residue; Bioconcentration	{Zhu, 2016, 3350492@@author-year}	High	
134237-51-7	Bread Wheat (*Triticum aestivum*)	Natural soil	4-week	BCF (leaf) = 0.604	0, 0.0908 mg/kg dry soil	Multiple routes within environmental exposure chamber Measured, Solvent: Methylene chloride	Residue; Bioconcentration	{Zhu, 2016, 3350492@@author-year}	High	
134237-50-6	Bread Wheat (*Triticum aestivum*)	Natural soil	1-week	BCF (root) = 1.28	0, 0.0984 mg/kg dry soil	Multiple routes within environmental exposure chamber Measured, Solvent: Methylene chloride	Residue; Bioconcentration	{Zhu, 2016, 3350492@@author-year}	High	
134237-50-6	Bread Wheat (*Triticum aestivum*)	Natural soil	1-week	BCF (stem) = 0.286	0, 0.0984 mg/kg dry soil	Multiple routes within environmental exposure chamber Measured, Solvent: Methylene chloride	Residue; Bioconcentration	{Zhu, 2016, 3350492@@author-year}	High	
134237-50-6	Bread Wheat (*Triticum aestivum*)	Natural soil	1-week	BCF (leaf) = 0.141	0, 0.0984 mg/kg dry soil	Multiple routes within environmental exposure chamber Measured, Solvent: Methylene chloride	Residue; Bioconcentration	{Zhu, 2016, 3350492@@author-year}	High	
134237-50-6	Bread Wheat (*Triticum aestivum*)	Natural soil	2-week	BCF (root) = 1.63	0, 0.0984 mg/kg dry soil	Multiple routes within environmental exposure chamber Measured, Solvent: Methylene chloride	Residue; Bioconcentration	{Zhu, 2016, 3350492@@author-year}	High	
134237-50-6	Bread Wheat (*Triticum aestivum*)	Natural soil	2-week	BCF (stem) = 0.405	0, 0.0984 mg/kg dry soil	Multiple routes within environmental exposure chamber Measured, Solvent: Methylene chloride	Residue; Bioconcentration	{Zhu, 2016, 3350492@@author-year}	High	
134237-50-6	Bread Wheat (*Triticum aestivum*)	Natural soil	2-week	BCF (leaf) = 0.225	0, 0.0984 mg/kg dry soil	Multiple routes within environmental exposure chamber Measured, Solvent: Methylene chloride	Residue; Bioconcentration	{Zhu, 2016, 3350492@@author-year}	High	

CAS RN	Test Species	Media	Duration	End-point	Conc(s)	Test Analysis	Effect(s)	References	Data Quality Ratings	HERO ID.
134237-50-6	Bread Wheat (*Triticum aestivum*)	Natural soil	3-week	BCF (root) = 2.13	0, 0.0984 mg/kg dry soil	Multiple routes within environmental exposure chamber Measured, Solvent: Methylene chloride	Residue; Bioconcentration	{Zhu, 2016, 3350492@@author-year}	High	
134237-50-6	Bread Wheat (*Triticum aestivum*)	Natural soil	3-week	BCF (stem) = 0.606	0, 0.0984 mg/kg dry soil	Multiple routes within environmental exposure chamber Measured, Solvent: Methylene chloride	Residue; Bioconcentration	{Zhu, 2016, 3350492@@author-year}	High	
134237-50-6	Bread Wheat (*Triticum aestivum*)	Natural soil	3-week	BCF (leaf) = 0.337	0, 0.0984 mg/kg dry soil	Multiple routes within environmental exposure chamber Measured, Solvent: Methylene chloride	Residue; Bioconcentration	{Zhu, 2016, 3350492@@author-year}	High	
134237-50-6	Bread Wheat (*Triticum aestivum*)	Natural soil	4-week	BCF (root) = 3.21	0, 0.0984 mg/kg dry soil	Multiple routes within environmental exposure chamber Measured, Solvent: Methylene chloride	Residue; Bioconcentration	{Zhu, 2016, 3350492@@author-year}	High	
134237-50-6	Bread Wheat (*Triticum aestivum*)	Natural soil	4-week	BCF (stem) = 0.880	0, 0.0984 mg/kg dry soil	Multiple routes within environmental exposure chamber Measured, Solvent: Methylene chloride	Residue; Bioconcentration	{Zhu, 2016, 3350492@@author-year}	High	
134237-50-6	Bread Wheat (*Triticum aestivum*)	Natural soil	4-week	BCF (leaf) = 0.663	0, 0.0984 mg/kg dry soil	Multiple routes within environmental exposure chamber Measured, Solvent: Methylene chloride	Residue; Bioconcentration	{Zhu, 2016, 3350492@@author-year}	High	
134237-52-8	Bread Wheat (*Triticum aestivum*)	Natural soil	1-week	TF = 0.177	0, 0.0628 mg/kg dry soil	Multiple routes within environmental exposure chamber Measured, Solvent: Methylene chloride	Residue; Translocation factor (TF: [stem]/ [root])	{Zhu, 2016, 3350492@@author-year}	High	
134237-52-8	Bread Wheat (*Triticum aestivum*)	Natural soil	2-week	TF = 0.206	0, 0.0628 mg/kg dry soil	Multiple routes within environmental exposure chamber, Measured, Solvent: Methylene chloride	Residue; Translocation factor (TF: [stem]/ [root])	{Zhu, 2016, 3350492@@author-year}	High	

CAS RN	Test Species	Media	Duration	End-point	Conc(s)	Test Analysis	Effect(s)	References	Data Quality Ratings	HERO ID.
134237-52-8	Bread Wheat (*Triticum aestivum*)	Natural soil	3-week	TF = 0.203	0, 0.0628 mg/kg dry soil	Multiple routes within environmental exposure chamber Measured, Solvent: Methylene chloride	Residue; Translocation factor (TF: [stem]/ [root])	{Zhu, 2016, 3350492@@author-year}	High	
134237-52-8	Bread Wheat (*Triticum aestivum*)	Natural soil	4-week	TF = 0.216	0, 0.0628 mg/kg dry soil	Multiple routes within environmental exposure chamber Measured, Solvent: Methylene chloride	Residue; Translocation factor (TF: [stem]/ [root])	{Zhu, 2016, 3350492@@author-year}	High	
134237-51-7	Bread Wheat (*Triticum aestivum*)	Natural soil	1-week	TF = 0.202	0, 0.0908 mg/kg dry soil	Multiple routes within environmental exposure chamber, Measured, Solvent: Methylene chloride	Residue; Translocation factor (TF: [stem]/ [root])	{Zhu, 2016, 3350492@@author-year}	High	
134237-51-7	Bread Wheat (*Triticum aestivum*)	Natural soil	2-week	TF = 0.224	0, 0.0908 mg/kg dry soil	Multiple routes within environmental exposure chamber Measured, Solvent: Methylene chloride	Residue; Translocation factor (TF: [stem]/ [root])	{Zhu, 2016, 3350492@@author-year}	High	
134237-51-7	Bread Wheat (*Triticum aestivum*)	Natural soil	3-week	TF = 0.242	0, 0.0908 mg/kg dry soil	Multiple routes within environmental exposure chamber Measured, Solvent: Methylene chloride	Residue; Translocation factor (TF: [stem]/ [root])	{Zhu, 2016, 3350492@@author-year}	High	
134237-51-7	Bread Wheat (*Triticum aestivum*)	Natural soil	4-week	TF = 0.264	0, 0.0908 mg/kg dry soil	Multiple routes within environmental exposure chamber Measured, Solvent: Methylene chloride	Residue; Translocation factor (TF: [stem]/ [root])	{Zhu, 2016, 3350492@@author-year}	High	
134237-50-6	Bread Wheat (*Triticum aestivum*)	Natural soil	1-week	TF = 0.218	0, 0.0984 mg/kg dry soil	Multiple routes within environmental exposure chamber Measured, Solvent: Methylene chloride	Residue; Translocation factor (TF: [stem]/ [root])	{Zhu, 2016, 3350492@@author-year}	High	
134237-50-6	Bread Wheat (*Triticum aestivum*)	Natural soil	2-week	TF = 0.244	0, 0.0984 mg/kg dry soil	Multiple routes within environmental exposure chamber Measured, Solvent: Methylene chloride	Residue; Translocation factor (TF: [stem]/ [root])	{Zhu, 2016, 3350492@@author-year}	High	

CAS RN	Test Species	Media	Duration	End-point	Conc(s)	Test Analysis	Effect(s)	References	Data Quality Ratings	HERO ID.
134237-50-6	Bread Wheat (*Triticum aestivum*)	Natural soil	3-week	TF = 0.280	0, 0.0984 mg/kg dry soil	Multiple routes within environmental exposure chamber Measured, Solvent: Methylene chloride	Residue; Translocation factor (TF: [stem]/ [root])	{Zhu, 2016, 3350492@@author-year}	High	
134237-50-6	Bread Wheat (*Triticum aestivum*)	Natural soil	4-week	TF = 0.269	0, 0.0984 mg/kg dry soil	Multiple routes within environmental exposure chamber Measured, Solvent: Methylene chloride	Residue; Translocation factor (TF: [stem]/ [root])	{Zhu, 2016, 3350492@@author-year}	High	
Terrestrial Invertebrates										
3194-55-6	Earthworm (*Eisenia fetida*)	Artificial soil	0-4-day	NOAEL = 400 mg AI/kg	0, 0, 50, 100, 200, 400 mg/kg dry soil	Static, Nominal, Solvent: Acetone	Growth: rate	{Shi, 2015, 2965902@@author-year}	High	2965902
3194-55-6	Earthworm (*Eisenia fetida*)	Artificial soil	4-7-day	NOAEL = 400 mg AI/kg	0, 0, 50, 100, 200, 400 mg/kg dry soil	Static, Nominal, Solvent: Acetone	Growth: rate	{Shi, 2015, 2965902@@author-year}	High	
3194-55-6	Earthworm (*Eisenia fetida*)	Artificial soil	7-10-day	NOAEL = 400 mg AI/kg	0, 0, 50, 100, 200, 400 mg/kg dry soil	Static, Nominal, Solvent: Acetone	Growth: rate	{Shi, 2015, 2965902@@author-year}	High	
3194-55-6	Earthworm (*Eisenia fetida*)	Artificial soil	10-14-day	NOAEL = 400 mg AI/kg	0, 0, 50, 100, 200, 400 mg/kg dry soil	Static, Nominal, Solvent: Acetone	Growth: rate	{Shi, 2015, 2965902@@author-year}	High	
3194-55-6	Earthworm (*Eisenia fetida*)	Artificial soil	14-day	NOAEL = 400 mg AI/kg	0, 0, 50, 100, 200, 400 mg/kg dry soil	Static, Nominal, Solvent: Acetone	Growth: rate; Catalase mRNA	{Shi, 2015, 2965902@@author-year}	High	
3194-55-6	Earthworm (*Eisenia fetida*)	Artificial soil	14-day	NOAEL = 200 mg AI/kg; LOAEL = 400 mg AI/kg	0, 0, 50, 100, 200, 400 mg/kg dry soil	Static, Nominal, Solvent: Acetone	Superoxide dismutase mRNA; HSP70 mRNA	{Shi, 2015, 2965902@@author-year}	High	
134237-52-8	Earthworm (*Eisenia fetida*)	Natural soil	21-day	BAF = 3.77	0, 0.172 mg/g dry soil	Static, Measured, Solvent: Unspecified	Residue; Bioaccumulation	{Li, 2016, 3350510@@author-year}	Low	3350510
134237-52-8	Earthworm (*Metaphire guillelmi*)	Natural soil	21-day	BAF = 1.16	0, 0.172 mg/g dry soil	Static, Measured, Solvent: Unspecified	Residue; Bioaccumulation	{Li, 2016, 3350510@@author-year}	Low	
134237-51-7	Earthworm (*Eisenia fetida*)	Natural soil	21-day	BAF = 2.28	0, 0.156 mg/g dry soil	Static, Measured, Solvent: Unspecified	Residue; Bioaccumulation	{Li, 2016, 3350510@@author-year}	Low	
134237-51-7	Earthworm (*Metaphire guillelmi*)	Natural soil	21-day	BAF = 2.81	0, 0.156 mg/g dry soil	Static, Measured, Solvent: Unspecified	Residue; Bioaccumulation	{Li, 2016, 3350510@@author-year}	Low	

CAS RN	Test Species	Media	Duration	End-point	Conc(s)	Test Analysis	Effect(s)	References	Data Quality Ratings	HERO ID.
134237-50-6	Earthworm (*Eisenia fetida*)	Natural soil	21-day	BAF = 21.8	0, 0.186 mg/g dry soil	Static, Measured, Solvent: Unspecified	Residue; Bioaccumulation	{Li, 2016, 3350510@@author-year}	Low	
134237-50-6	Earthworm (*Metaphire guillelmi*)	Natural soil	21-day	BAF = 6.21	0, 0.186 mg/g dry soil	Static, Measured, Solvent: Unspecified	Residue; Bioaccumulation	{Li, 2016, 3350510@@author-year}	Low	
Terrestrial Vertebrates										
134237-50-6	Domestic chicken (*Gallus domesticus*)	Culture of embryonic hepatocytes	24-hour	NOAEL = 0.06 mg/L; LOAEL = 0.6 mg/L	0, 0, 0.006, 0.06, 0.6, 1.9, 6.4 mg/L	*In vitro*, Nominal, Solvent: DMSO	Cytochrome P450 2H1 mRNA; UGT-1A9; Fatty acid-binding protein 10-A, liver basic mRNA; Cyto-chrome P450 3A37 mRNA	{Crump, 2008, 1408111@@author-year}	High	1408111
134237-50-6	Domestic chicken (*Gallus domesticus*)	Culture of embryonic hepatocytes	36-hour	NOAEL = 0.006 mg/L; LOAEL = 0.06 mg/L	0, 0, 0.006, 0.06, 0.6, 1.9, 6.4 mg/L	*In vitro*, Nominal, Solvent: DMSO	Cytochrome P450 2H1 mRNA	{Crump, 2008, 1408111@@author-year}	High	
134237-50-6	Domestic chicken (*Gallus domesticus*)	Culture of embryonic hepatocytes	36-hour	NOAEL = 0.06 mg/L; LOAEL = 0.6 mg/L	0, 00.006, 0.06, 0.6, 1.9, 6.4 mg/L	*In vitro*, Nominal, Solvent: DMSO	UGT- 1A9; Fatty acid-binding protein 10-A, liver basic mRNA; Cyto-chrome P450 3A37 mRNA	{Crump, 2008, 1408111@@author-year}	High	
134237-50-6	Domestic chicken (*Gallus domesticus*)	Culture of embryonic hepatocytes	24-hour	NOAEL = 6.4 mg/L	0, 0, 0.006, 0.06, 0.6, 1.9, 6.4 mg/L	*In vitro*, Nominal, Solvent: DMSO	Xenobiotic-sensing orphan nuclear receptor (CXR) mRNA	{Crump, 2008, 1408111@@author-year}	High	
134237-50-6	Domestic chicken (*Gallus domesticus*)	Culture of embryonic hepatocytes	24-hour	NOAEL = 1.9 mg/L; LOAEL = 6.4 mg/L	0, 0, 0.006, 0.06, 0.6, 1.9, 6.4 mg/L	*In vitro*, Nominal, Solvent: DMSO	Transthyretin (pre-albumin, amyloid-osis type I) mRNA; Thyroid hormone responsive spot 14 alpha mRNA	{Crump, 2008, 1408111@@author-year}	High	
134237-50-6	Domestic chicken (*Gallus domesticus*)	Culture of embryonic hepatocytes	36-hour	NOAEL = 6.4 mg/L	0, 0, 0.006, 0.06, 0.6, 1.9, 6.4 mg/L	*In vitro*, Nominal, Solvent: DMSO	Trans-thyretin (pre-albumin, amyloid-osis type I) mRNA	{Crump, 2008, 1408111@@author-year}	High	

CAS RN	Test Species	Media	Duration	End-point	Conc(s)	Test Analysis	Effect(s)	References	Data Quality Ratings	HERO ID.
134237-50-6	Domestic chicken (*Gallus domesticus*)	Culture of embryonic hepatocytes	36-hour	NOAEL = 1.9 mg/L; LOAEL = 6.4 mg/L	0, 0, 0.006, 0.06, 0.6, 1.9, 6.4 mg/L	*In vitro*, Nominal, Solvent: DMSO	Thyroid hormone responsive spot 14 alpha mRNA	{Crump, 2008, 1408111@@author-year}	High	
134237-50-6 HBCD-Technical Mixture	Domestic chicken (*Gallus domesticus*)	Culture of embryonic hepatocytes	24-hour	NOAEL = 0.06 mg/L; LOAEL = 0.6 mg/L	0, 0, 0.006, 0.06, 0.6, 1.9, 6.4 mg/L	*In vitro*, Nominal, Solvent: DMSO	Thyroid hormone responsive spot 14 alpha mRNA; Cyto-chrome P450 2H1 mRNA; Cyto-chrome P450 3A37 mRNA	{Crump, 2008, 1408111@@author-year}	High	
134237-50-6 HBCD-Technical Mixture	Domestic chicken (*Gallus domesticus*)	Culture of embryonic hepatocytes	36-hour	NOAEL = 0.06 mg/L; LOAEL = 0.6 mg/L	0, 0, 0.006, 0.06, 0.6, 1.9, 6.4 mg/L	*In vitro*, Nominal, Solvent: DMSO	Thyroid hormone responsive spot 14 alpha mRNA; Fatty acid-binding protein 10-A, liver basic mRNA; Cyto-chrome P450 2H1 mRNA; Cyto-chrome P450 3A37 mRNA	{Crump, 2008, 1408111@@author-year}	High	
134237-50-6 HBCD-Technical Mixture	Domestic chicken (*Gallus domesticus*)	Culture of embryonic hepatocytes	24-hour	NOAEL = 6.4 mg/L	0, 0, 0.006, 0.06, 0.6, 1.9, 6.4 mg/L	*In vitro*, Nominal, Solvent: DMSO	UGT- 1A9	{Crump, 2008, 1408111@@author-year}	High	
134237-50-6 HBCD-Technical Mixture	Domestic chicken (*Gallus domesticus*)	Culture of embryonic hepatocytes	36-hour	NOAEL = 6.4 mg/L	0, 0, 0.006, 0.06, 0.6, 1.9, 6.4 mg/L	*In vitro*, Nominal, Solvent: DMSO	UGT- 1A9; Trans-thyretin (pre-albumin, amyloid-osis type I) mRNA	{Crump, 2008, 1408111@@author-year}	High	
134237-50-6 HBCD-Technical Mixture	Domestic chicken (*Gallus domesticus*)	Culture of embryonic hepatocytes	24-hour	NOAEL = 1.9 mg/L; LOAEL = 6.4 mg/L	0, 0, 0.006, 0.06, 0.6, 1.9, 6.4 mg/L	*In vitro*, Nominal, Solvent: DMSO	Transthyretin (pre-albumin, amyloid-osis type I) mRNA; Fatty acid-binding protein 10-A, liver basic mRNA	{Crump, 2008, 1408111@@author-year}	High	
134237-52-8	Domestic chicken (*Gallus domesticus*)	Diet	1-day	NOAEL = 0.001 mg AI/kg food	0, 0.001 mg/kg food	Food, Nominal, Solvent: Rapeseed oil	Residue: Bioaccumulation in Abdominal fat	{Fournier, 2012, 1927629@@author-year}	High	1927629

CAS RN	Test Species	Media	Duration	End-point	Conc(s)	Test Analysis	Effect(s)	References	Data Quality Ratings	HERO ID.
134237-52-8	Domestic chicken (*Gallus domesticus*)	Diet	4-day	NOAEL = 0.001 mg AI/kg food	0, 0.001 mg/kg food	Food, Nominal, Solvent: Rapeseed oil	Residue: Bioaccumulation in Abdominal fat	{Fournier, 2012, 1927629@@author-year}	High	
134237-52-8	Domestic chicken (*Gallus domesticus*)	Diet	8-day	LOAEL = 0.001 mg AI/kg food	0, 0.001 mg/kg food	Food, Nominal, Solvent: Rapeseed oil	Residue: Bioaccumulation in Abdominal fat	{Fournier, 2012, 1927629@@author-year}	High	
134237-52-8	Domestic chicken (*Gallus domesticus*)	Diet	11-day	LOAEL = 0.001 mg AI/kg food	0, 0.001 mg/kg food	Food, Nominal, Solvent: Rapeseed oil	Residue: Bioaccumulation in Abdominal fat	{Fournier, 2012, 1927629@@author-year}	High	
134237-52-8	Domestic chicken (*Gallus domesticus*)	Diet	16-day	LOAEL = 0.001 mg AI/kg food	0, 0.001 mg/kg food	Food, Nominal, Solvent: Rapeseed oil	Residue: Bioaccumulation in Abdominal fat	{Fournier, 2012, 1927629@@author-year}	High	
134237-52-8	Domestic chicken (*Gallus domesticus*)	Diet	21-day	LOAEL = 0.001 mg AI/kg food	0, 0.001 mg/kg food	Food, Nominal, Solvent: Rapeseed oil	Residue: Bioaccumulation in Abdominal fat	{Fournier, 2012, 1927629@@author-year}	High	
134237-52-8	Domestic chicken (*Gallus domesticus*)	Diet	21-day, 1 day depuration	LOAEL = 0.001 mg A/kg food	0, 0.001 mg/kg food	Food, Nominal, Solvent: Rapeseed oil	Residue: Bioaccumulation in Abdominal fat	{Fournier, 2012, 1927629@@author-year}	High	
134237-52-8	Domestic chicken (*Gallus domesticus*)	Diet	21-day, 3 days depuration	LOAEL = 0.001 mg AI/kg food	0, 0.001 mg/kg food	Food, Nominal, Solvent: Rapeseed oil	Residue: Bioaccumulation in Abdominal fat	{Fournier, 2012, 1927629@@author-year}	High	
134237-52-8	Domestic chicken (*Gallus domesticus*)	Diet	21-day, 8 days depuration	LOAEL = 0.001 mg AI/kg food	0, 0.001 mg/kg food	Food, Nominal, Solvent: Rapeseed oil	Residue: Bioaccumulation in Abdominal fat	{Fournier, 2012, 1927629@@author-year}	High	
134237-52-8	Domestic chicken (*Gallus domesticus*)	Diet	21-day, 18 days depuration	LOAEL = 0.001 mg AI/kg food	0, 0.001 mg/kg food	Food, Nominal, Solvent: Rapeseed oil	Residue: Bioaccumulation in Abdominal fat	{Fournier, 2012, 1927629@@author-year}	High	
134237-52-8	Domestic chicken (*Gallus domesticus*)	Diet	1-day	LOAEL = 0.001 mg AI/kg food	0, 0.001 mg/kg food	Food, Nominal, Solvent: Rapeseed oil	Residue: Bioaccumulation in Liver	{Fournier, 2012, 1927629@@author-year}	High	

CAS RN	Test Species	Media	Duration	End-point	Conc(s)	Test Analysis	Effect(s)	References	Data Quality Ratings	HERO ID.
134237-52-8	Domestic chicken (*Gallus domesticus*)	Diet	4-day	LOAEL = 0.001 mg AI/kg food	0, 0.001 mg/kg food	Food, Nominal, Solvent: Rapeseed oil	Residue: Bioaccumulation in Liver	{Fournier, 2012, 1927629@@author-year}	High	
134237-52-8	Domestic chicken (*Gallus domesticus*)	Diet	8-day	LOAEL = 0.001 mg AI/kg food	0, 0.001 mg/kg food	Food, Nominal, Solvent: Rapeseed oil	Residue: Bioaccumulation in Liver	{Fournier, 2012, 1927629@@author-year}	High	
134237-52-8	Domestic chicken (*Gallus domesticus*)	Diet	11-day	LOAEL = 0.001 mg AI/kg food	0, 0.001 mg/kg food	Food, Nominal, Solvent: Rapeseed oil	Residue: Bioaccumulation in Liver	{Fournier, 2012, 1927629@@author-year}	High	
134237-52-8	Domestic chicken (*Gallus domesticus*)	Diet	16-day	LOAEL = 0.001 mg AI/kg food	0, 0.001 mg/kg food	Food, Nominal, Solvent: Rapeseed oil	Residue: Bioaccumulation in Liver	{Fournier, 2012, 1927629@@author-year}	High	
134237-52-8	Domestic chicken (*Gallus domesticus*)	Diet	21-day	LOAEL = 0.001 mg AI/kg food	0, 0.001 mg/kg food	Food, Nominal, Solvent: Rapeseed oil	Residue: Bioaccumulation in Liver	{Fournier, 2012, 1927629@@author-year}	High	
134237-52-8	Domestic chicken (*Gallus domesticus*)	Diet	21-day, 1 day depuration	NOAEL = 0.001 mg AI/kg food	0, 0.001 mg/kg food	Food, Nominal, Solvent: Rapeseed oil	Residue: Bioaccumulation in Liver	{Fournier, 2012, 1927629@@author-year}	High	
134237-52-8	Domestic chicken (*Gallus domesticus*)	Diet	21-day, 3 days depuration	NOAEL = 0.001 mg AI/kg food	0, 0.001 mg/kg food	Food, Nominal, Solvent: Rapeseed oil	Residue: Bioaccumulation in Liver	{Fournier, 2012, 1927629@@author-year}	High	
134237-52-8	Domestic chicken (*Gallus domesticus*)	Diet	21-day, 8 days depuration	NOAEL = 0.001 mg AI/kg food	0, 0.001 mg/kg food	Food, Nominal, Solvent: Rapeseed oil	Residue: Bioaccumulation in Liver	{Fournier, 2012, 1927629@@author-year}	High	
134237-52-8	Domestic chicken (*Gallus domesticus*)	Diet	21-day, 18 days depuration	NOAEL = 0.001 mg AI/kg food	0, 0.001 mg/kg food	Food, Nominal, Solvent: Rapeseed oil	Residue: Bioaccumulation in Liver	{Fournier, 2012, 1927629@@author-year}	High	
134237-52-8	Domestic chicken (*Gallus domesticus*)	Diet	21-day	BCF (egg yolk) = 0.4	0, 0.001 mg/kg food	Food, Nominal, Solvent: Rapeseed oil	Residue: Bioconcentration	{Fournier, 2012, 1927629@@author-year}	High	

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134237-52-8	Domestic chicken (*Gallus domesticus*)	Diet	21-day	BCF (liver) = 0.3	0, 0.001 mg/kg food	Food, Nominal, Solvent: Rapeseed oil	Residue: Bioconcentration	{Fournier, 2012, 1927629@@author-year}	High	
25637-99-4	American Kestrel (*Falco sparverius*)	Diet	4 weeks prior to pairing, continuing through incubation until 2 days prior to hatch	LOAEL (males and females) = 0.51 mg AI/kg food	0, 0.51 mg/kg-bw/day	Food, Nominal, Solvent: Safflower oil	Decreased activity, general: measured during courtship, measured at 5 days after pairing	{Marteinson, 2012, 1927590@@author-year}	High	1927590
25637-99-4	American Kestrel (*Falco sparverius*)	Diet	4 weeks prior to pairing, continuing through incubation until 2 days prior to hatch	LOAEL (males) = 0.51 mg/kg-bw/day	0, 0.51 mg/kg-bw/day	Food, Nominal, Solvent: Safflower oil	Decreased activity, general and flying measured during brood-rearing; Courtship behavior: Reduced vocalizations, effect observed throughout courtship; Pair-bonding nesting behavior: Reduced Displays; Care of young, nest attentiveness: Reduced frequency of entry into nest-box and Decreased food retrieval	{Marteinson, 2012, 1927590@@author-year}	High	

CAS RN	Test Species	Media	Duration	End-point	Conc(s)	Test Analysis	Effect(s)	References	Data Quality Ratings	HERO ID.
25637-99-4	American Kestrel (*Falco sparverius*)	Diet	4 weeks prior to pairing, continuing through incubation until 2 days prior to hatch	LOAEL (females) = 0.51 mg/kg-bw/day	0, 0.51 mg/kg-bw/day	Food, Nominal, Solvent: Safflower oil	Courtship behavior: Reduced vocalizations, effect observed only at 5 days after pairing, Reduced courtship displays, effect observed at 5 days after pairing; Pair-bonding nesting behavior: Increased displays; Care of young, nest attentiveness: Increased frequency of entry into nest-box and Increased food retrieval	{Marteinson, 2012, 1927590@@author-year}	High	
25637-99-4	American Kestrel (*Falco sparverius*)	Diet	4 weeks prior to pairing, continuing through incubation until 2 days prior to hatch	LOAEL = 0.51 mg/kg-bw/day	0, 0.51 mg/kg-bw/day	Food, Nominal, Solvent: Safflower oil	Reduced mass of first egg; Care of young, nest attentiveness: Incubation nest temperature	{Marteinson, 2012, 1927590@@author-year}	High	

CAS RN	Test Species	Media	Duration	End-point	Conc(s)	Test Analysis	Effect(s)	References	Data Quality Ratings	HERO ID.
25637-99-4	American Kestrel (*Falco sparverius*)	Diet	75 days: 3 weeks prior to pairing, continuing through incubation until first chick hatched	LOAEL = 0.51 mg AI/kg food	0, 0.51 mg/kg-bw/day	Food, Nominal, Solvent: Safflower oil	Residue: Accumulation in Eggs; Reproductive: Decreased time to first egg laid after pairing, decreased clutch size, decreased egg volume per clutch, decreased egg volume per pair, decreased egg mass per clutch, Decreased egg mass at mid-incubation, Increased egg weight loss at mid-incubation	{Fernie, 2011, 1401837@@author-year}	High	1401837
25637-99-4	American Kestrel (*Falco sparverius*)	Diet	75 days: 3 weeks prior to pairing, continuing through incubation until first chick hatched	NOAEL = 0.51 mg AI/kg food	0, 0.51 mg/kg-bw/day	Food, Nominal, Solvent: Safflower oil	Lipid concentration in eggs; Repro-ductive: Egg shell thickness, Overall hatching success (number of hatchlings), Overall reproductive success (number of fledglings per brood/number of eggs per female), Fertility (percentage fertile eggs laid per female), Hatching success (percentage hatchlings of fertile eggs per female), Fledgling success (percentage fledglings of hatchlings per female)	{Fernie, 2011, 1401837@@author-year}	High	

CAS RN	Test Species	Media	Duration	End-point	Conc(s)	Test Analysis	Effect(s)	References	Data Quality Ratings	HERO ID.
	American kestrel (*F. sparverius*)	Diet exposed	21-day	LOAEL	3.27 ng/g ww (low exposure)	Food, Nominal, Solvent: Safflower oil	Reproduction	{Marteinson, 2010, 1927669@@author-year}	High	1927669
	American kestrel (*F. sparverius*)	Diet exposed	21-day	LOAEL	15.61 ng/g ww (high exposure)	Food, Nominal, Solvent: Safflower oil	Reproduction	{Marteinson, 2010, 1927669@@author-year}	High	
	American kestrel (*F. sparverius*)	Diet exposed	21-day	LOAEL	0.51 mg/kg-day	HBCD dissolved in safflower oil was injected into the brains of dead cockerels daily; kestrels fed from the cockerels *ad libitum* and received a dose of approximately 0.51 mg/kg-day.	Increased testes weight in unpaired males	{Marteinson, 2011, 1927624@@author-year}	High	1927624